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Service Manual

Digital Progressive Plasma Television

- TH-37PD25U-P
  TH-42PD25U-P

GP6DU-DTV Chassis



Specifications

Power Source	AC 120 V, 50/ 60 Hz
Power Consumption	Maximum :395 W (TH-42PD25U/ P), 345W (TH-37PD25U/ P) Stand-by condition :0.8 W
Plasma Display panel	Drive method :AC type 42-inch, 16 :9 aspect ratio (TH-42PD25U/ P) Drive method :AC type 37-inch, 16 :9 aspect ratio (TH-37PD25U/ P)
Screen Size	36.22 (920 mm) (W)× 20.39 (518 mm) (H)× 41.57 (1056 mm) (diagonal) (TH-42PD25U/ P) 32.20 (818 mm) (W)× 18.15 (461mm) (H)× 36.97 (939 mm) (diagonal) (TH-37PD25U/ P)

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Dimensions (W× H× D)	46.06 (1170mm)× 29.91 (658 mm)× 3.90 (99 mm) (TH-42PD25U/ P) 42.13 (1070mm)× 23.46 (596mm)× 3.90 (99 mm) (TH-37PD25U/ P)		
Mass (Weight)	79.4 lb.(36.0 kg)Net (TH-42PD25U/ P) 67.2 lb.(30.5 kg)Net (TH-37PD25U/ P)		
Channel Capability-ATSC/ NTSC	VHF/ UHF: 2-69, CATV: 1-136		
Sound			
Speaker	Woofer		
	ϕ 1.57 (40 mm)× 8 , Tweeter		
	ϕ 1.38 (35mm)× 2		
Audio Output	16 W [8 W+ 8 W] (10% THD)		
Headphone	M3 (3.5 mm) Jack× 1		
FEATURES	Two screen display fuctions	3D Y/ C FILTER HDMI	
	BBE VIVA 3D	LINEAR PIP JPEG Viewer	
	CLOSED CAPTION	V-Chip	
Accessories Supplied	Remote control Transmitter	EUR7627Z10	
	AA Battery× 2	Ferrite cores (large× 4, small× 6)	
	AC Cord	F type Antenna Adaptor (3C-2V× 2, 5C-2V× 2)	
	Pedestal	Fixing band	
Operating Conditions	Temperature : 34° F - 104° F (0° - 40° C) Humidity : 20% - 80% (non-condensing)		
Connection Terminals	RGB input	D-SUB 15pin	R, G, B/ 0.7 Vp-p (75Ω) HD, VD/ 1.0 -5.0 Vp-p (high impedance)
	AV INPUT 1-3	VIDEO (Phono Jack Type)	1.0 Vp-p (75Ω)
		S-VIDEO (Mini DIN 4-pin)	Y :1.0 Vp-p (75Ω), C : 0.286 Vp-p (75Ω)
		AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
	AV PROG.OUT	VIDEO (Phono Jack Type)	1.0 Vp-p (75Ω)
		AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
	TO AUDIO AMP	AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
	COMPONENT VIDEO	Y	1.0 Vp-p (including synchronization)
	INPUT1-2	PB/ PR	± 0.35 Vp-p
		AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
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	AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
DIGITAL AUDIO OUT	PCM/ Dolby Digital, Fiber Optic	

Note:
Design and Specifications are subject to change without notice.Weight and Dimensions shown are approximate.

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Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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	TO AUDIO AMP	AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
	COMPONENT VIDEO	Y	1.0 Vp-p (including synchronization)
	INPUT1-2	PB/ PR	± 0.35 Vp-p
		AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
	HDMI	HDMI type A Connector	
		AUDIO L-R (Phono Jack Type× 2)	0.5 Vrms
	DIGITAL AUDIO OUT	PCM/ Dolby Digital, Fiber Optic	

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1 Applicable signals

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VIDEO input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.73	59.94

Applicable input signals (∗ mark)

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	COMPONENT	PC	HDMI
1	525 (480) /60i	15.73	59.94	∗	∗	∗
2	525 (480) /60p	31.47	59.94	∗	∗	∗
3	750 (720) /60p	45.00	60.00		∗	
4	1,125 (1,080) /60i	33.75	59.94	∗	∗	∗
5	640 × 400 @70	31.47	70.00		∗	
6	640 × 480 @60	31.47	59.94		∗	
7	Macintosh13" (640 × 480)	35.00	66.67		∗	
8	640 × 480 @75	37.50	75.00		∗	
9	852 × 480 @60	31.50	60.00		∗	
10	800 × 600 @60	37.88	60.32		∗	
11	800 × 600 @75	46.88	75.00		∗	
12	800 × 600 @85	53.67	85.06		∗	
13	Macintosh16" (832 × 624)	49.73	74.55		∗	
14	1,024 × 768 @60	48.36	60.00		∗	
15	1,024 × 768 @70	56.48	70.07		∗	
16	1,024 × 768 @75	60.02	75.03		∗	
17	1,024 × 768 @85	68.68	85.00		∗	
18	Macintosh21" (1,152 × 870)	68.68	75.06		∗	
19	1,280 × 1,024 @60	63.98	60.02		∗	
20	1,280 × 1,024 @75	79.98	75.03		∗	
21	1,280 × 1,024 @85	91.15	85.02		∗	
22	1,600 × 1,200 @60	75.00	60.00		∗	

Note: Signals without above specification may not be displayed properly.

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2 Safety Precautions

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2.1 General Guidelines

2.1.1 Leakage Current Cold Check

2.1.2 Leakage Current Hot Check (See Figure 1 .)

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2.1 General Guidelines

TOP PREVIOUS NEXT

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.

3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1 Leakage Current Cold Check

2.1.2 Leakage Current Hot Check (See Figure 1 .)

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2.1.1 Leakage Current Cold Check

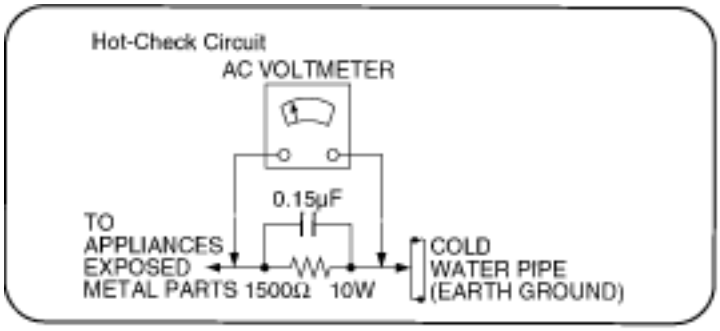
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1. Unplug the AC cord and connect a jumper between the two prongs on the plug.

2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be

   .

Figure 1



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2.1.2 Leakage Current Hot Check (See Figure 1 .)

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1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.

2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .

3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.

4. Check each exposed metallic part, and measure the voltage at each point.

5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.

6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

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3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

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Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

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4 About lead free solder (PbF)

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Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it s manufacture due to environmental conservation issues. For service and repair work, we d suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol

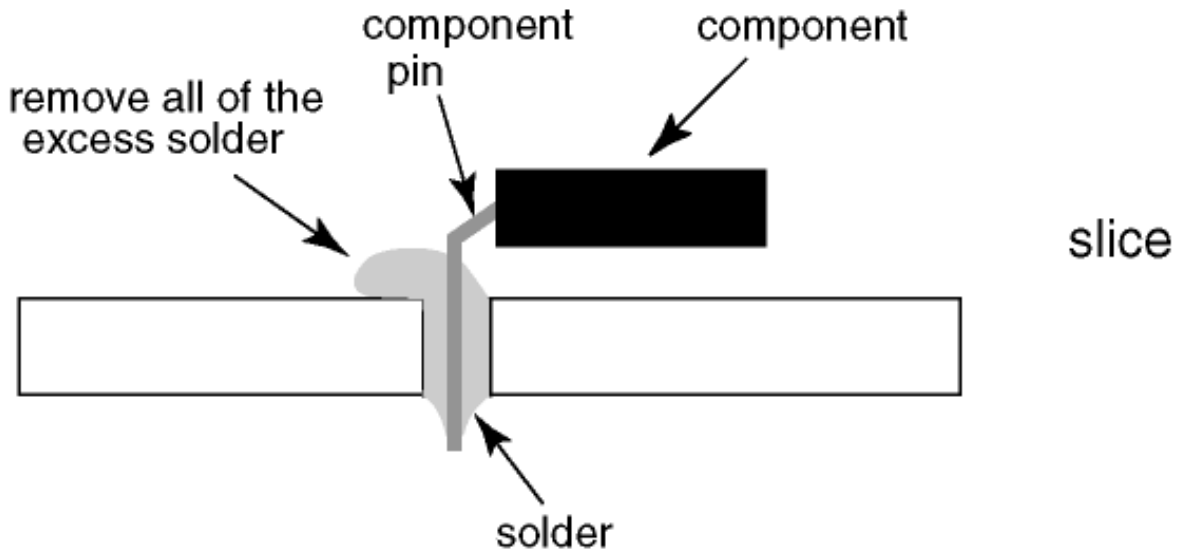


stamped on the back of PCB.

Caution

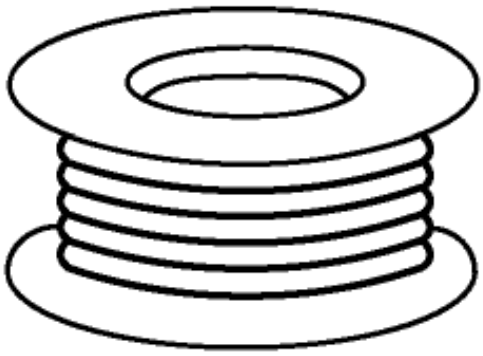
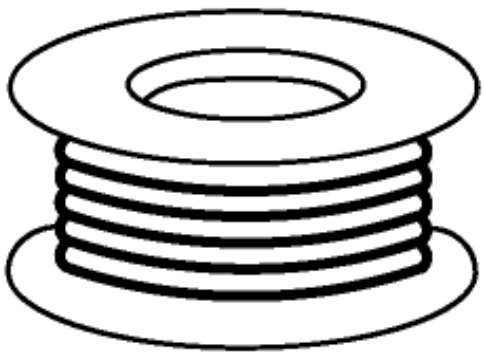
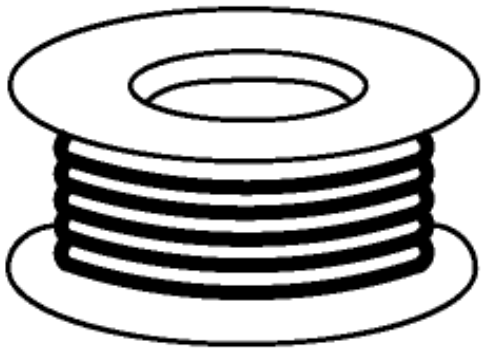
- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also beused.

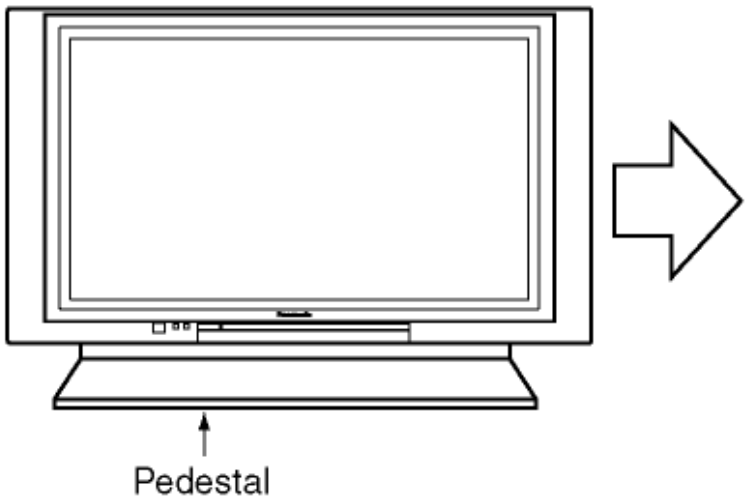
0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

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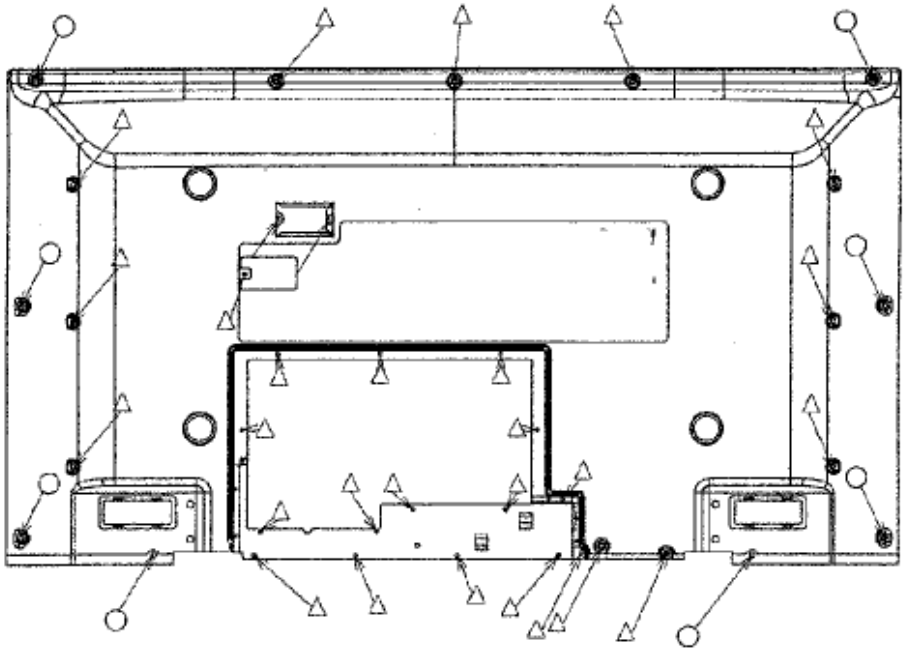
5 Service Hint

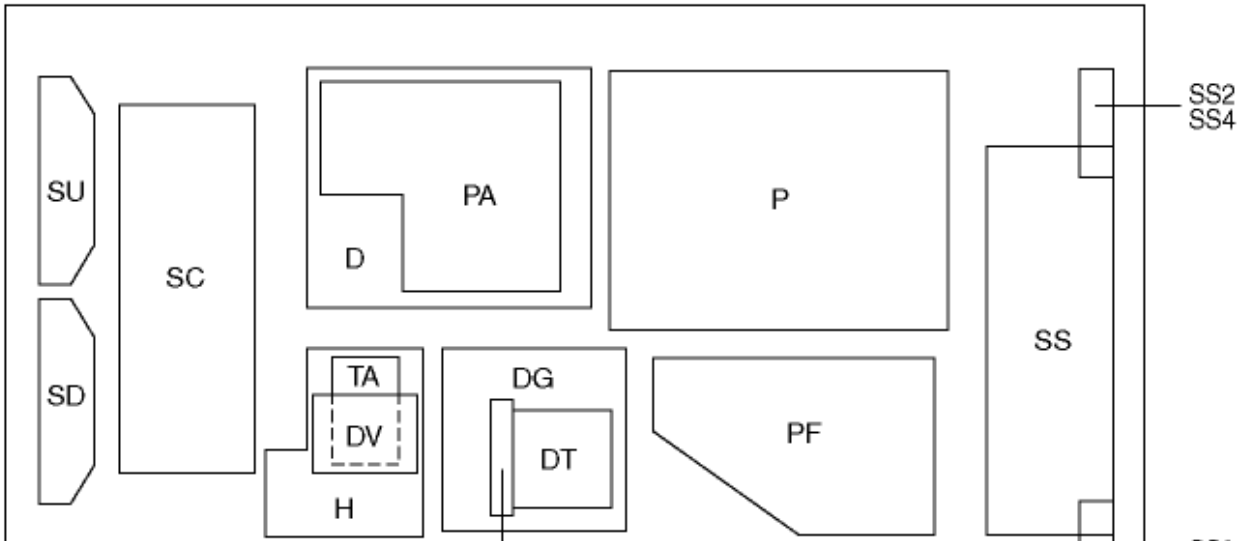
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Stand the Unit used for Pedestal



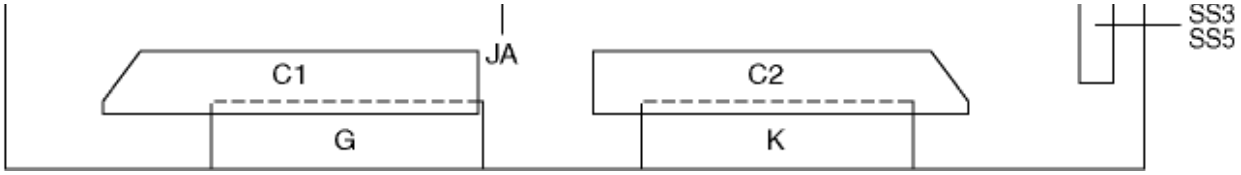
Remove the Back Cover





Remove: 8 screws (△) XTB4+15AFZ
27 screws (○) THEL023Z

Service Position



Board Name	Function	Board Name	Function
C1	DATA DRIVER (RIGHT)	PF	LINE FILTER
C2	DATA DRIVER (LEFT)	SC	SCAN DRIVE
D	DIGTAL SIGINAL PROCESS	SD	SCAN OUT (DOWN)
DG	DIGTAL CORE MICOM	SS	SUSTAIN DRIVE
G	FRONT TERMINAL, SWITCH	SS2	SUSTAIN CONNECTION (UP)
H	REAE TERMINAL	SS3	SUSTAIN CONNECTION (DOWN)
K	LED, REMOTE, POWER SWITCH	SU	SCAN OUT (UP)
P	POWER SUPPLY	TA	ANALOG TUNER
PA	DC/DC, AUDIO	DT	DIGITAL TUNER
DV	HDMI INTERFACE	JA	INTERFACE

Note:

DT-Board is PAVCA supplyed.

TOP PREVIOUS NEXT

6 Plasma panel replacement method

TOP PREVIOUS NEXT

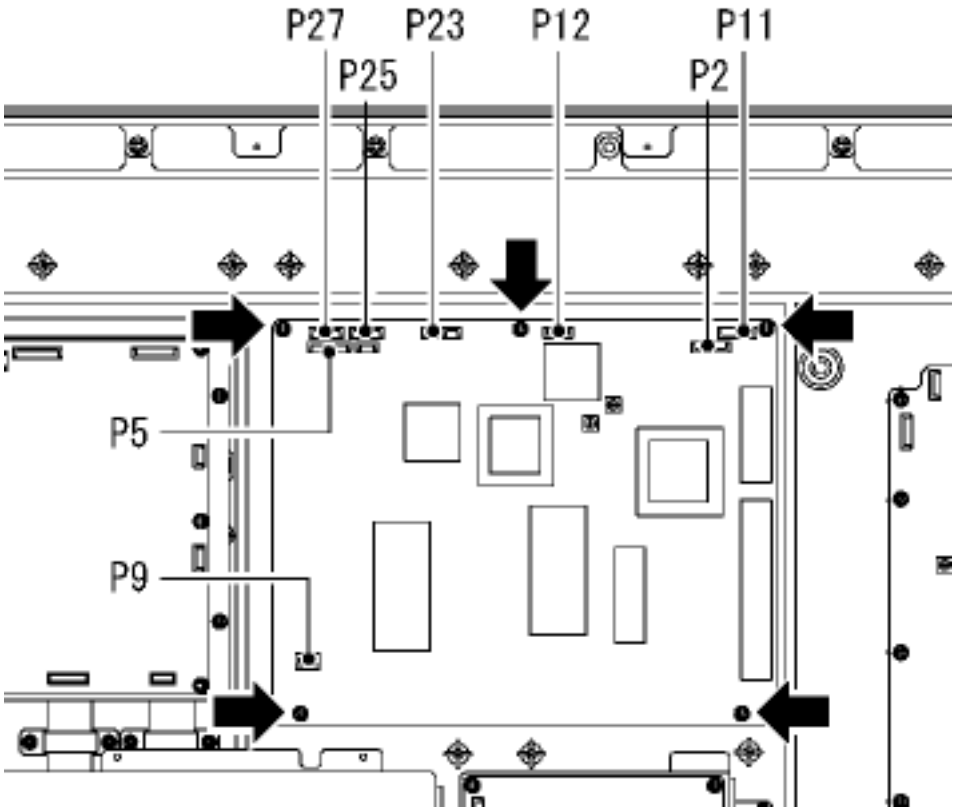
To replace the plasma panel (finished), place the unit on the servicing stand, remove the front frame (finished), and attach the panel, being careful not to scratch the plasma panel surface.

1. Remove the rear cover.

2. Remove the P board.

   A. Remove the couplers (P2, P5, P9, P11, P12, P23, P25, P27) connected to the P board.

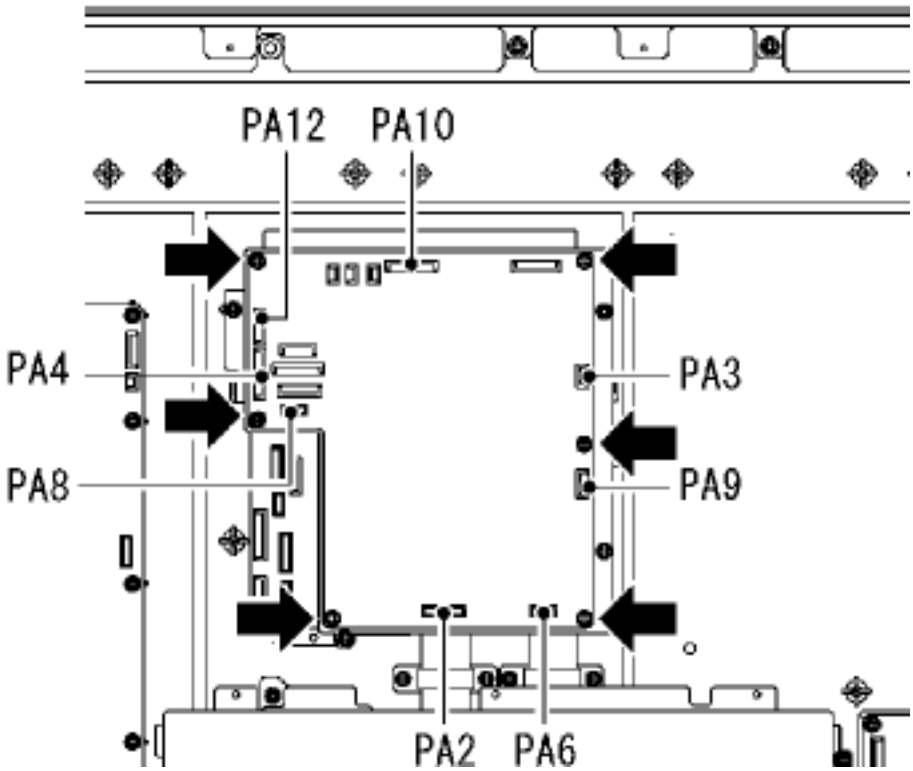
   B. Remove the P board fastening screws (×5) and remove the P board.



3. Remove the PA board.

   A. Remove the couplers (PA2, PA3, PA4, PA6, PA8, PA9, PA10, PA12) connected to the PA module.

   B. Remove the PA board fastening screws (×6) and remove the PA board.

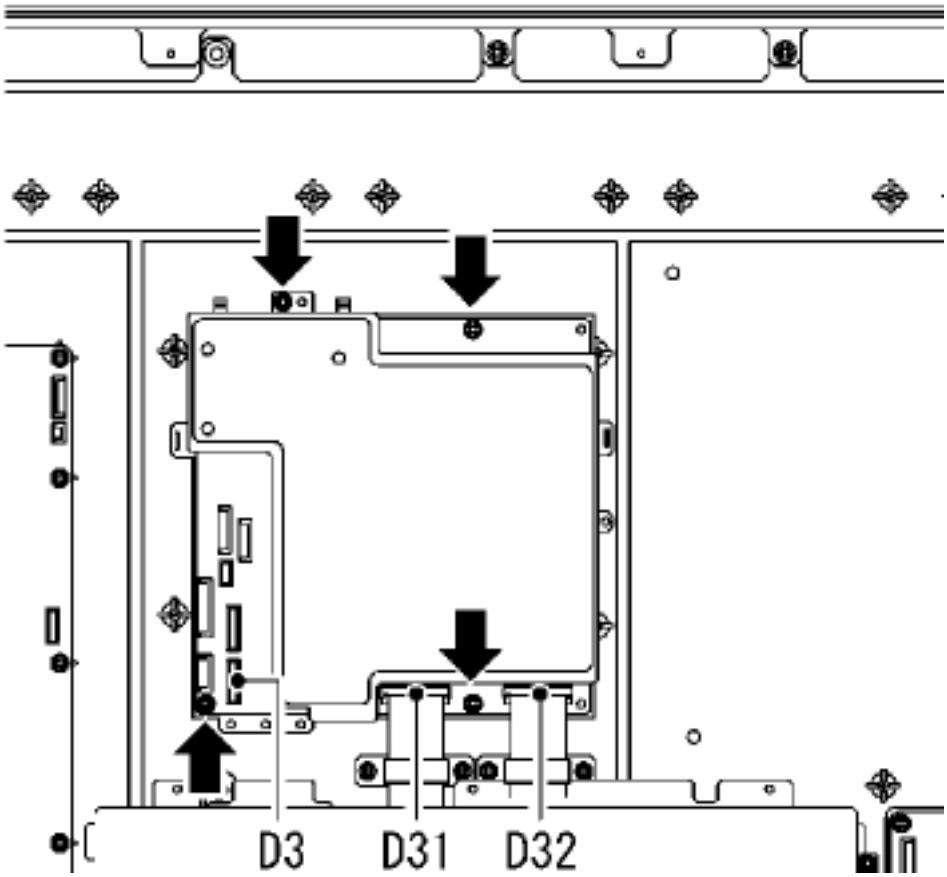


4. Remove the D board.

   A. Remove the coupler (D3) connected to the D board.

   B. Remove the flexible cables (D31, D32) connected to the D board.

   C. Remove the D board fastening screws (×4) and remove the D board.

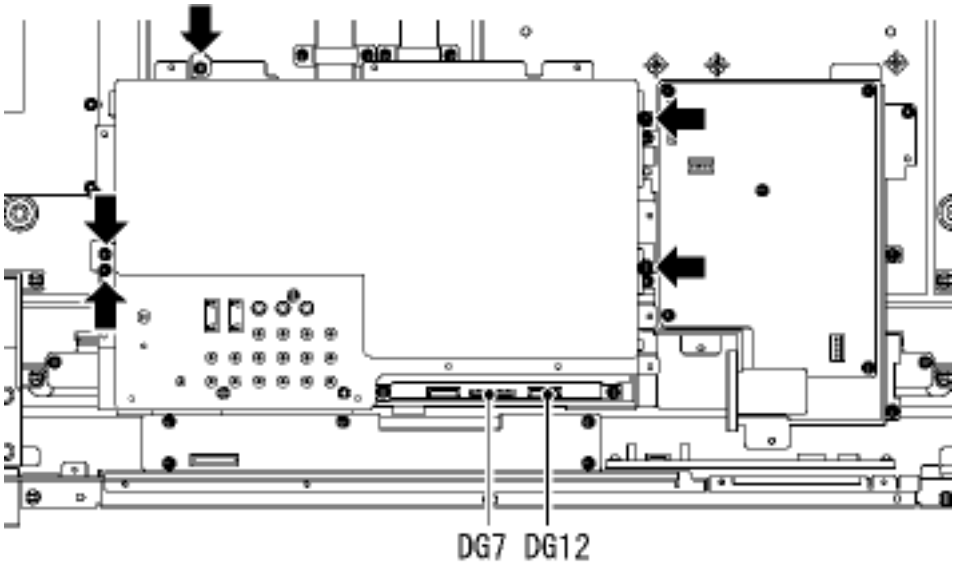


5. Remove the tuner unit.

   A. Remove the coupler (DG12) connected to the tuner unit.

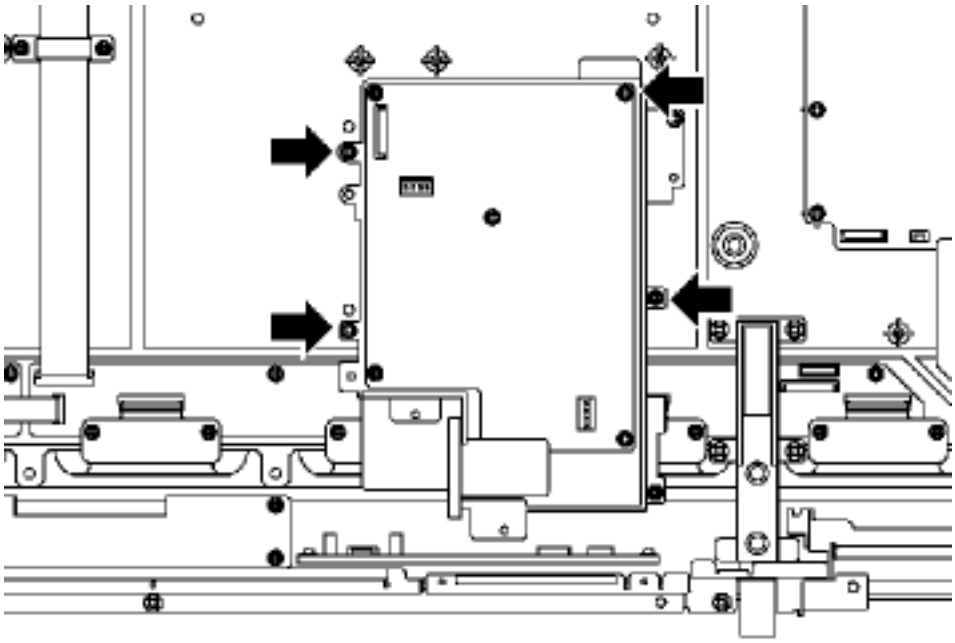
   B. Remove the flexible cable (DG7) connected to the tuner unit.

   C. Remove the tuner unit fastening screws (×5), and remove the tuner unit.



6. Remove the power supply unit.

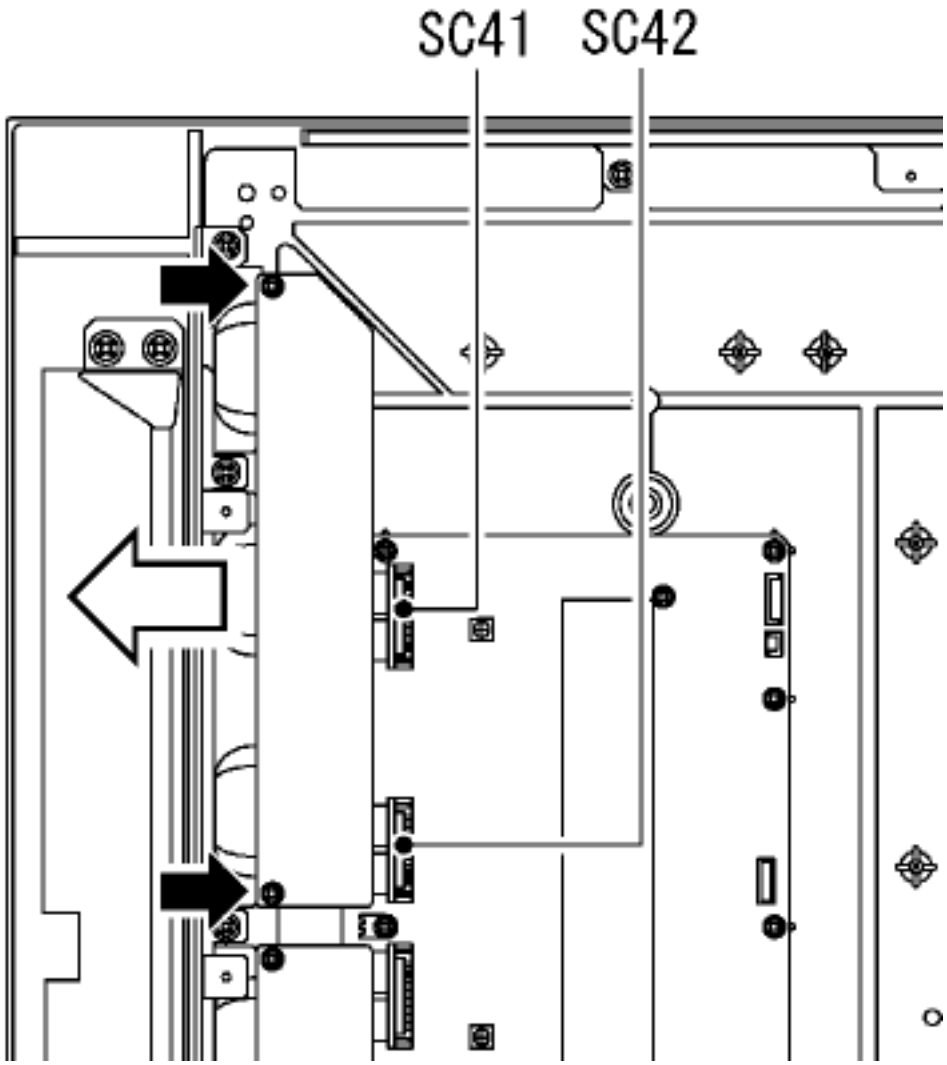
   A. Remove the PF board fastening screws (×4), and remove the power supply unit.



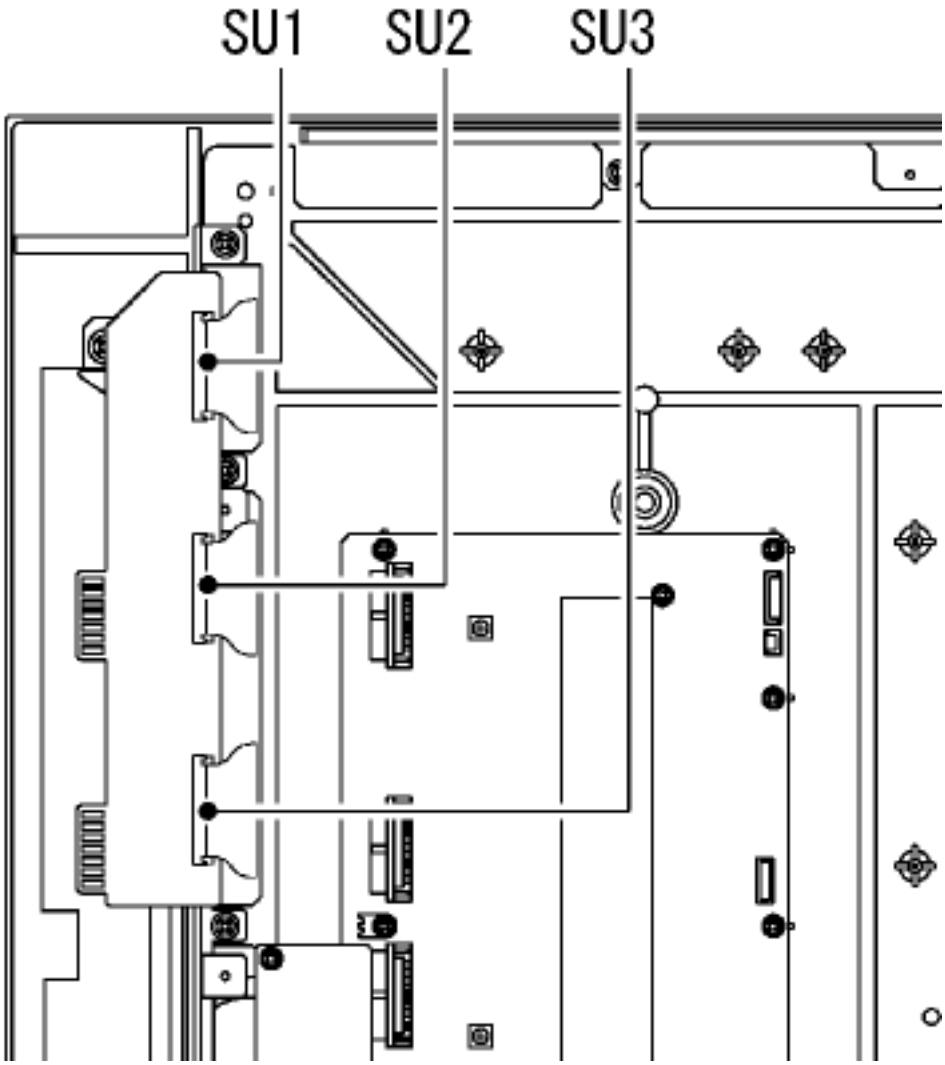
7. Remove the SU board.

   A. Remove the SU board fastening screws (×2).

   B. Move the SU board to the left and disconnect from the couplers (SC41, SC42) on the SC board.



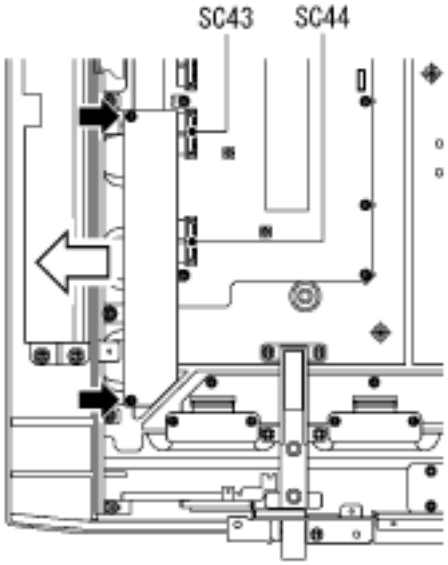
8. Remove the flexible cables (SU1, SU2, SU3) connected to the SU board, and remove the SU board.



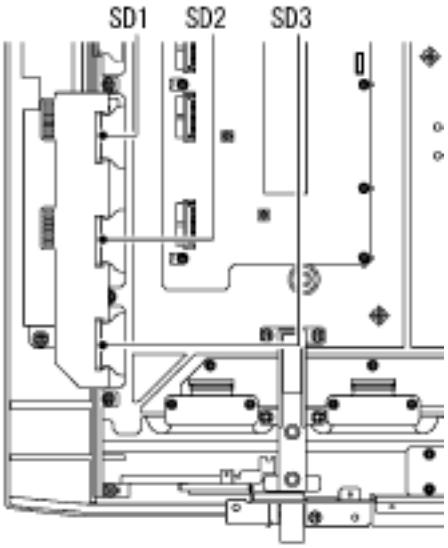
- Remove the SD board.

  A. Remove the SD board fastening screws (×2).

  B. Move the SD board to the left and disconnect from the couplers (SC43, SC44) on the SC board.

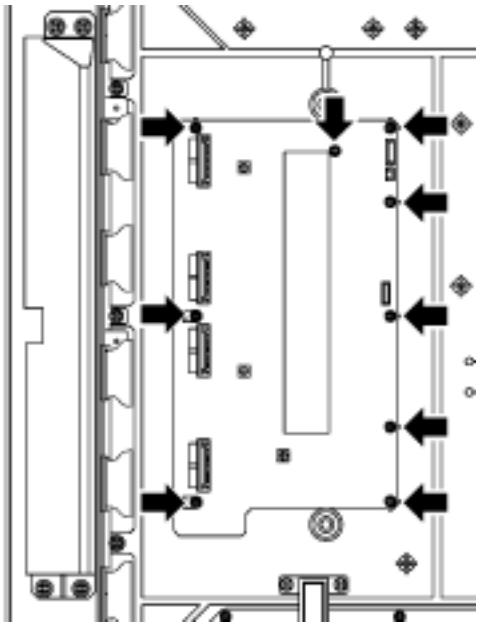


- Remove the flexible cables (SD1, SD2, SD3) connected to the SD board, and remove the SD board.



- Remove the SC board.

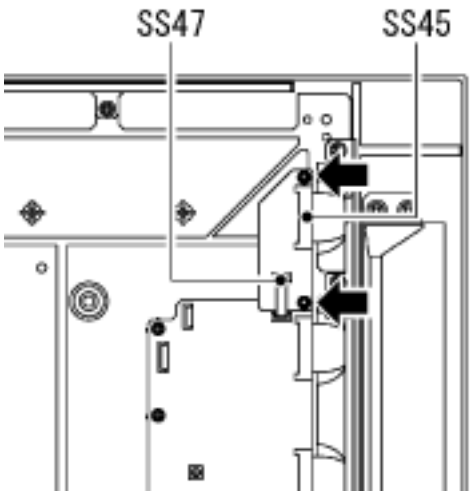
  A. Remove the SC board fastening screws (×9) and remove the SC board.



- Remove the SS2 board.

  A. Remove the coupler (SS47) connected to the SS2 board, and remove the flexible cable (SS47).

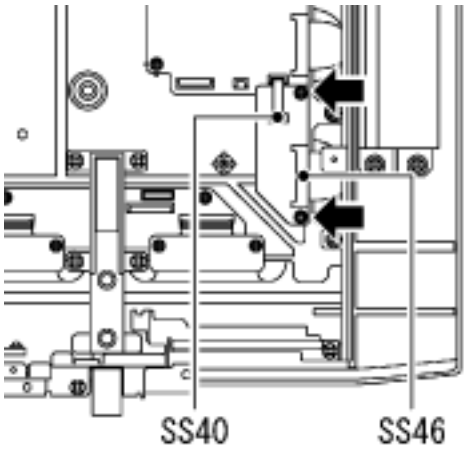
  B. Remove the SS2 boarde fastening screws (×2), and remove the SS2 board.



- Remove the SS3 board.

  A. Remove the coupler (SS40) and flexible cable (SS46) connected to the SS3 board.

  B. Remove the SS3 board fastening screws (×2), and remove the SS3 board.

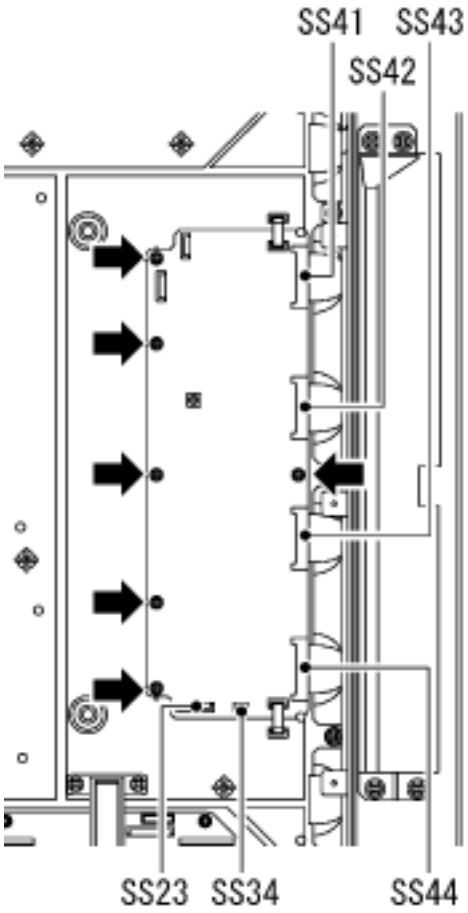


- Remove the SS board.

  A. Remove the couplers (SS23, SS34) connected to the SS board, and remove the flexible cables (SS40, SS47) connected to the SS3 board and SS2 board.

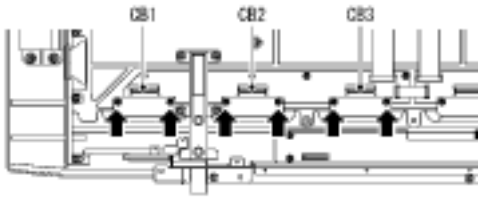
  B. Remove the flexible cables (SS41, SS42, SS43, SS44) connected to the SS board.

  C. Remove the SS board fastening screws (×6), and remove the SS boards.

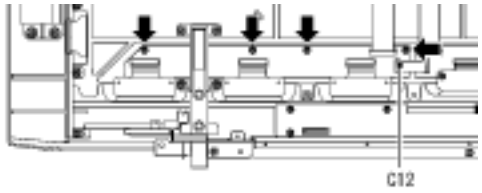


- Remove the C1 board.

  A. Remove the flexible cable holder fastening screws (×6) connected to the C1 board, and remove flexible cables (CB1, CB2, CB3).

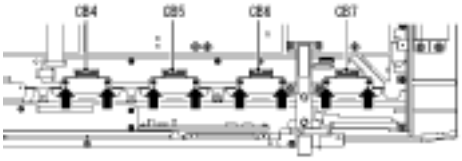


- Remove the flexible cable (C12) connected to the C1 board.
- Remove the C1 board fastening screws (×4), and remove the C1 board.

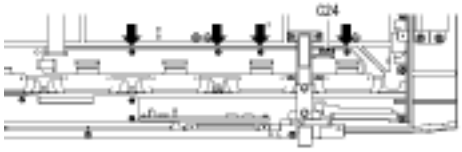


- Remove the C2 board.

  A. Remove the flexible cable holder fastening screws (×8) connected to the C2 board, and remove the flexible cables (CB4, CB5, CB6, CB7).

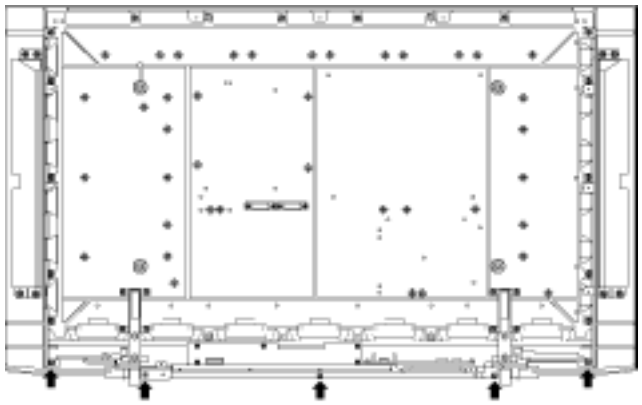


- Remove coupler (CC24) connected to the C2 board.
- Remove C2 board fastening screws (×4), and remove the C2 board.



- Remove the shield plate (bottom).

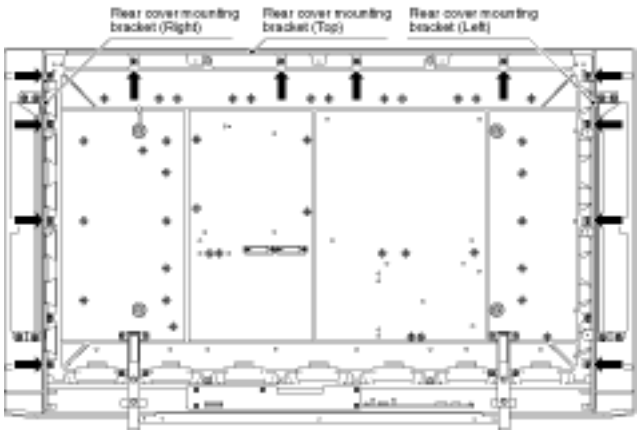
  A. Remove the shield plate (bottom) fastening screws (×7), and remove the shield plate (bottom).



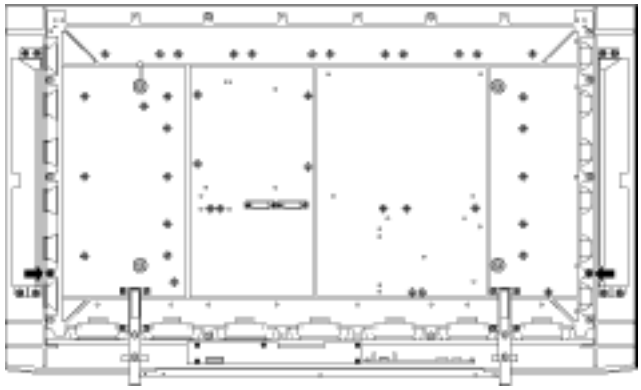
- Remove the rear cover mounting brackets.

  A. Remove the rear cover mounting bracket (top) fastening screws (×4), and remove the rear cover mounting bracket (top).

  B. Remove the rear cover mounting bracket (left, right) fastening screws (×4 each), and remove the rear cover mounting brackets (left and right).

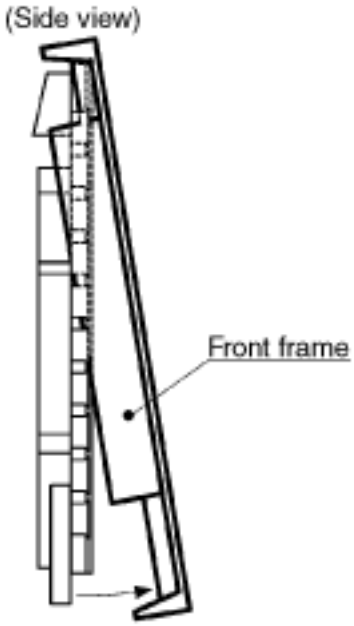


- Remove the fastening screws (×2) holding the front frame and plasma panel.



- Remove the front frame.

  A. Leaving the front glass and front board unit attached to the front frame, pull the bottom of the front frame forward, lift, and remove.

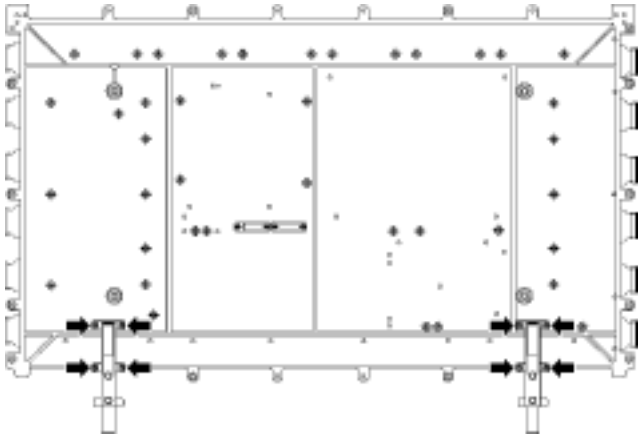


- Remove stand brackets.

  A. Remove the plasma panel section from the servicing stand and lay on a surface such as a table (covered), with the plasma panel surface facing downward.

     Spread a soft cloth or similar on the table for protection, so the panel surface is not scratched.

  B. Remove the stand bracket (left, right) fastening screws (×4 each) and remove the stand brackets (left, right).



- Prepare the new panel (finished).

  A. Obtain a new plasma panel (finished) to replace the old plasma panel (finished).

  B. Place the new plasma panel (finished) on a surface such as a table (covered), with the plasma panel surface facing downward.

- Install the new plasma panel (finished).

  A. Fit the stand brackets (left, right) to the new plasma panel.

  B. Place the plasma panel section on the servicing stand.

* When fitting the front frame, be careful not to allow any debris, dust or handling residues to remain between the front glass and plasma panel.

TOP PREVIOUS NEXT

7 Location of Lead Wiring

TOP PREVIOUS NEXT

7.1 Lead of Wiring (1)

7.2 Lead of Wiring (2)

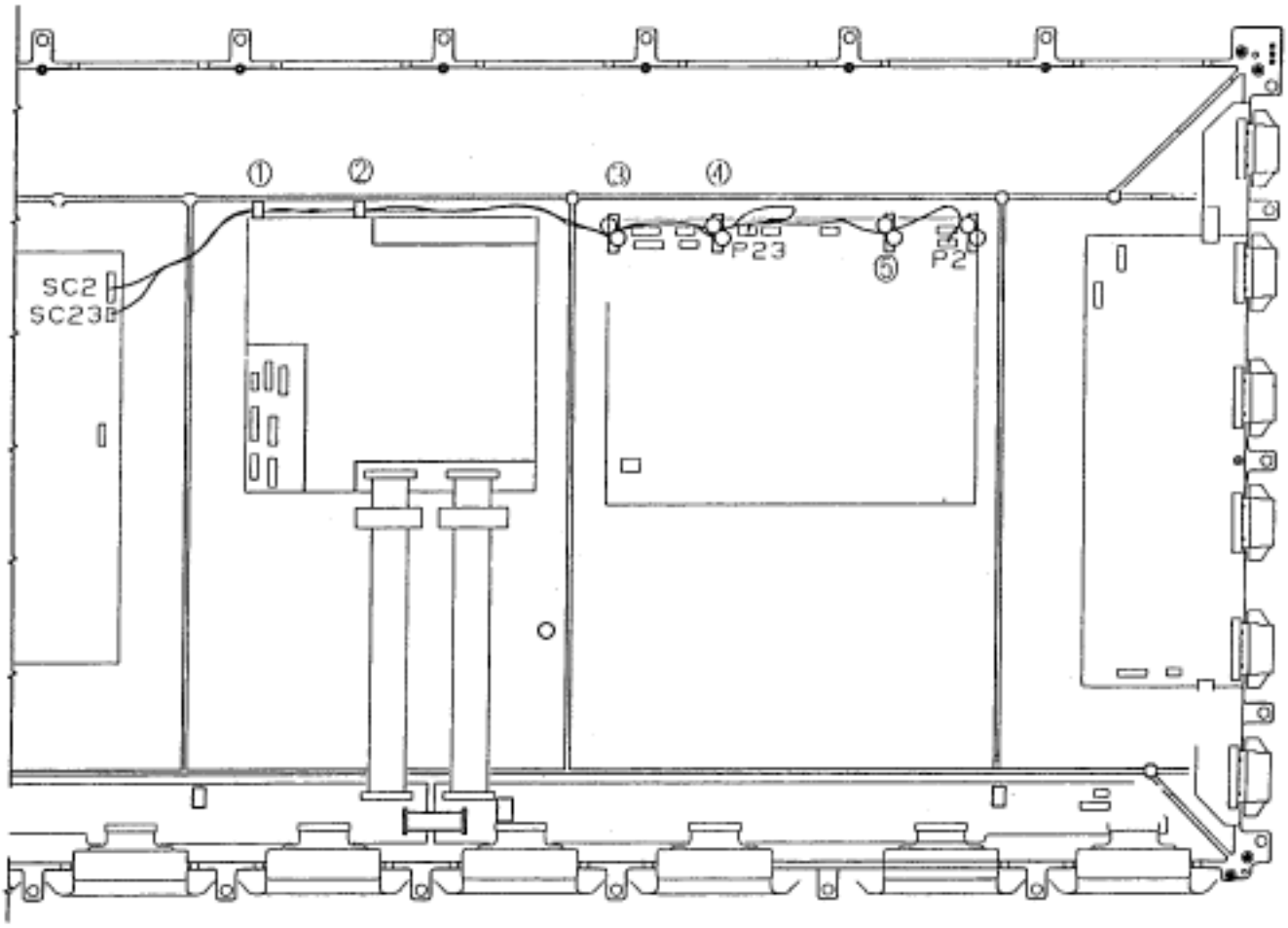
7.3 Lead of Wiring (3)

7.4 Lead of Wiring (4)

TOP PREVIOUS NEXT

7.1 Lead of Wiring (1)

TOP PREVIOUS NEXT

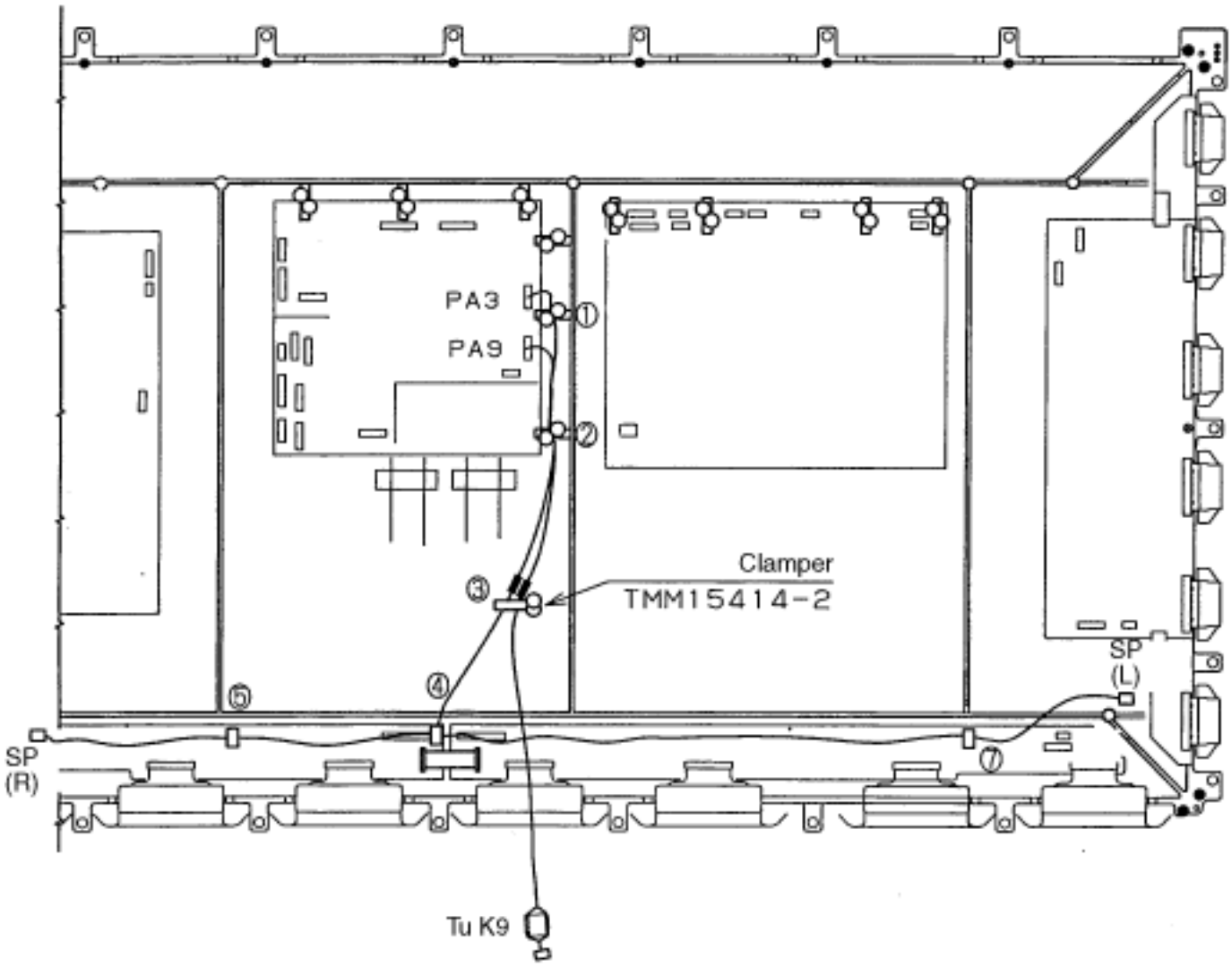


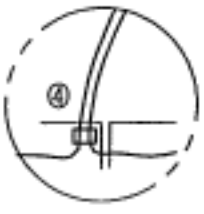
CON:NO. — CON:NO.	①	②	③	④	⑤	⑥
SC2 — P2	○	○	○	○	○	
SC23 — P23	○	○	○	○		
—						

TOP PREVIOUS NEXT

7.2 Lead of Wiring (2)

TOP PREVIOUS NEXT



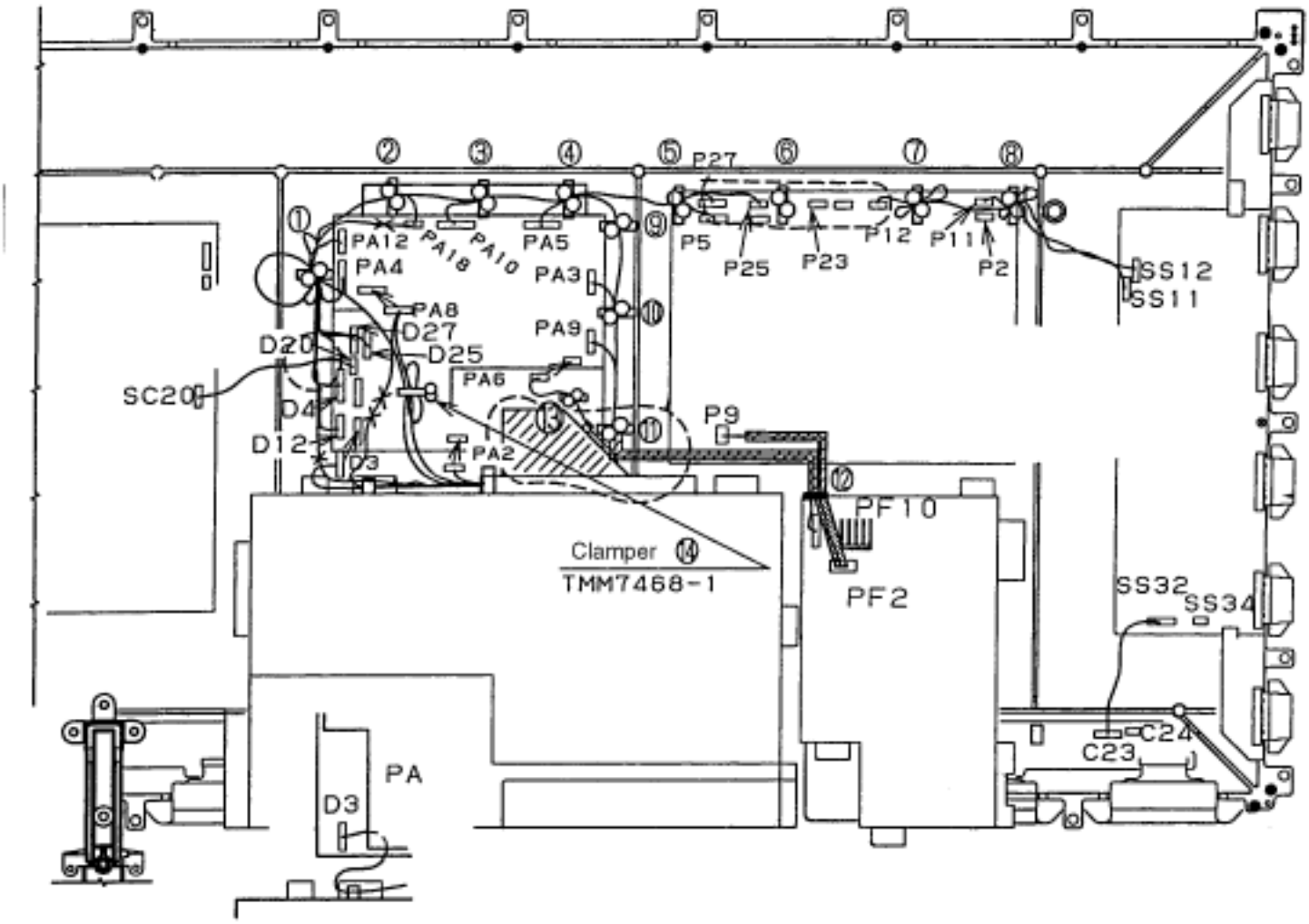


CON:NO. — CON:NO.	①	②	③	④	⑤	⑦
PA3 — SPR	○	○	○	○	○	
PA3 — SPL	○	○	○	○		○
PA9 — K9		○	○			

TOP PREVIOUS NEXT

7.3 Lead of Wiring (3)

TOP PREVIOUS NEXT



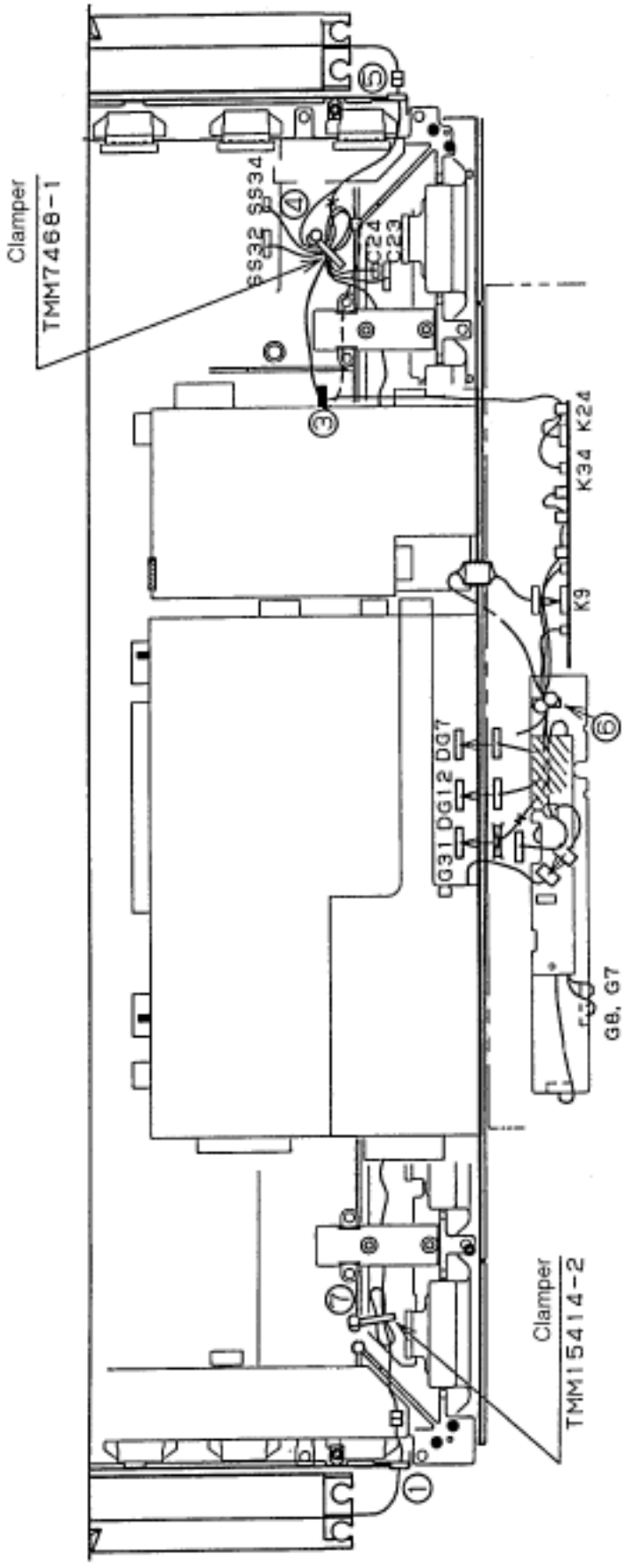
CON:NO. — CON:NO.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭
SC20 — D20														
D12 — PA12	○													
D4 — PA4	□													
D25 — P25	○	○	○	○	○									
D27 — P27	○	○	○	○	○									
PA5 — P5				○	○									
SS11 — P11								△						
SS12 — P12							△	○						
PA10 — PF10			○	○					○	○	○	○		
PF2 — P9												○		
PA18-BA3	●	○												○
PA6-													○	
PA8-														△

● Wind up 2 times
△ Wind up 3 times
□ Wind up 4 times

TOP PREVIOUS NEXT

7.4 Lead of Wiring (4)

TOP PREVIOUS NEXT



CON.NO. - CON.NO.	①	③	④	⑤	⑥	⑦
K24 - [C24]		○	●			
K34 - [SS34]		○	●			
SS23 - [C23]			●			
PA3 - [SPR]	○					△
PA3 - [SPL]			●	○		
K9 -					○	

● Wind up 2 times △ Wind up 3 times

TOP PREVIOUS NEXT

8 Self-check Function

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When symptoms like the power fails sometimes or sometimes there is no picture and/or sound can not be confirmed at the time of servicing, the self-check function can be used to confirm the occurrenceand to find the defective circuit.

In case of power failure , flashing of the POWER indication (red) at the front of the unit can be used to narrow down the +B line.

8.1 Self-check of the microcomputer control system (bus line)

8.2 Power LED Blinking timing chart

8.3 No Power

8.4 No Picture

8.5 Local screen failure

TOP PREVIOUS NEXT

8.1 Self-check of the microcomputer control system (bus line)

TOP PREVIOUS NEXT

Indicaton method

Press the OK button in the control panel of the unit simultaneously with the POWER button in the control panel of the unit. Hold them a few seconds.

Return to he normal screen

Press any button on the unit or in the remote control.

Screen Display



Display	Ref. No.	Description	Board
MEMORY	IC002	EEPROM for Main MPU	DG
SOUND	IC2401	Sound Control	PA
YUV_SW	IC4302	YUV switch	H
GC2S1	IC4502	Global Core 2 for sub	DG
EXDAC2	IC5011	EXDAC	DV
PANEL	- - - - -	Panel	- - - - -
SOUND2	IC4203	BBE VIVA	H
TNR1	TNR8000	Tuner 1	DT
MTS	IC8008	NXTWARE	DT
GC2M1	IC4501	Global Core 2 for main	DG
GC2S2	IC9305	New Plasma AI (Slave)	D

HDMI	IC5003	HDMI Recelver	DV
JPEG	IC6013	JPEG I/F	JG
DTVMPU	IC8024	HDsL Peaks	DT
TNR2	TNR251	Tuner 2	TB
AVSW	IC4301	AV switch	H
GC2M2	IC9455	New Plasma AI (Master)	D
EXDAC	IC3003	External I/O	DG
CONV	IC3801	Convert Micom	DG

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8.2 Power LED Blinking timing chart

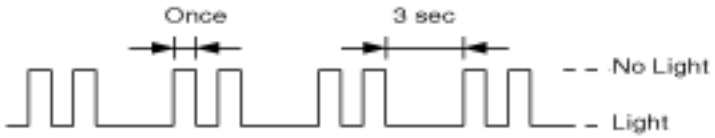
TOP PREVIOUS NEXT

1. Subject

   Information of LED Blinking timing chart.

2. Contents

   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver
12		PA board Base Voltage (15, 12, 9, 5, 2.5V)

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8.3 No Power

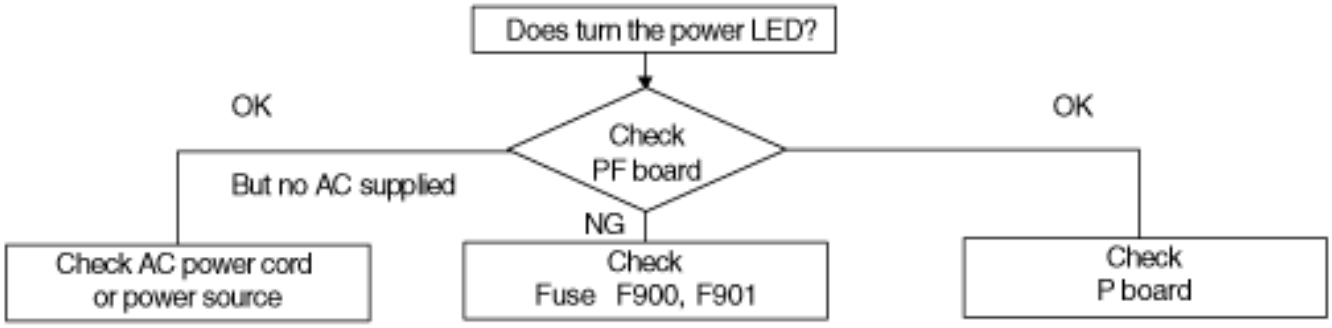
TOP PREVIOUS NEXT

[First check point]

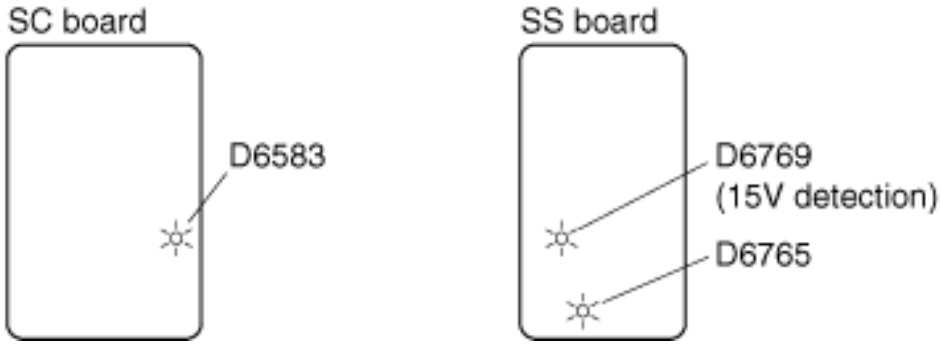
There are following 3 states of No Power indication by power LED.

1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

1. No lit



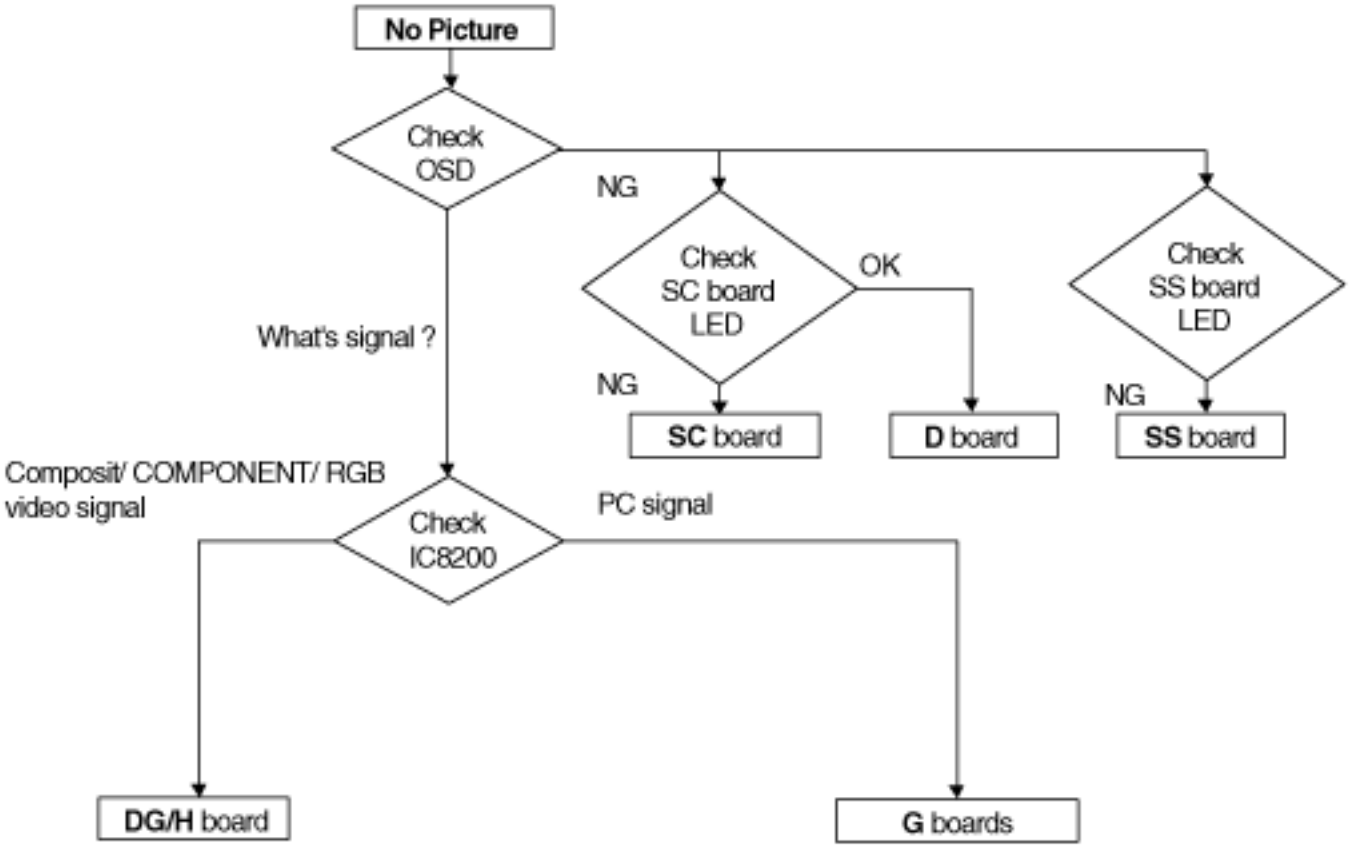
Drive circuits LED indicator



TOP PREVIOUS NEXT

8.4 No Picture

TOP PREVIOUS NEXT



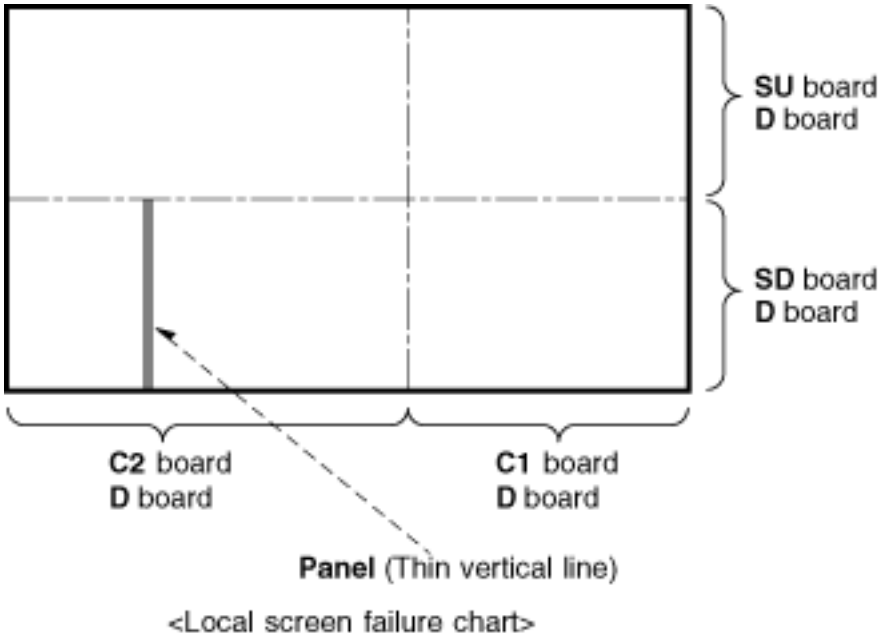
TOP PREVIOUS NEXT

8.5 Local screen failure

TOP PREVIOUS NEXT

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1



<Local screen failure chart>

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9 Serviceman Mode (Electronic Controls)

TOP PREVIOUS NEXT

This Receiver has electronic technology using the I2C BUS Concept. It performs as a control function and it replaces many mechanical controls. Instead of adjusting mechanical controls individually, many of the control function are now performedby using On Screen Display Menu . (The Serviceman Adjustment Mode .)

Note

It is suggested that the technician reads all the way through and understand the following the procedure for Entering/Exiting the Serviceman Mode ; then proceed with the instructions working the Receiver. When becoming familiarwith the procedure, the Flow Chart for Serviceman Mode may be used as a quick guide.

Quick Entry to Serviceman Mode:

At times when minor adjustments need to be done to the electronic controls, the method of Entering the serviceman Mode without removal of the cabinet back is as follows using the Remote Control:

1. Press the MENU button to display the Main menu, select SET-UP icon and then select the Program CH to set Cable only (Input Setup) mode.

2. Return to the Main menu, Press MENU button twice and select TIMER icon, Press OK to set SLEEP time for 30 Min. With Press the Vol.

   ▸.

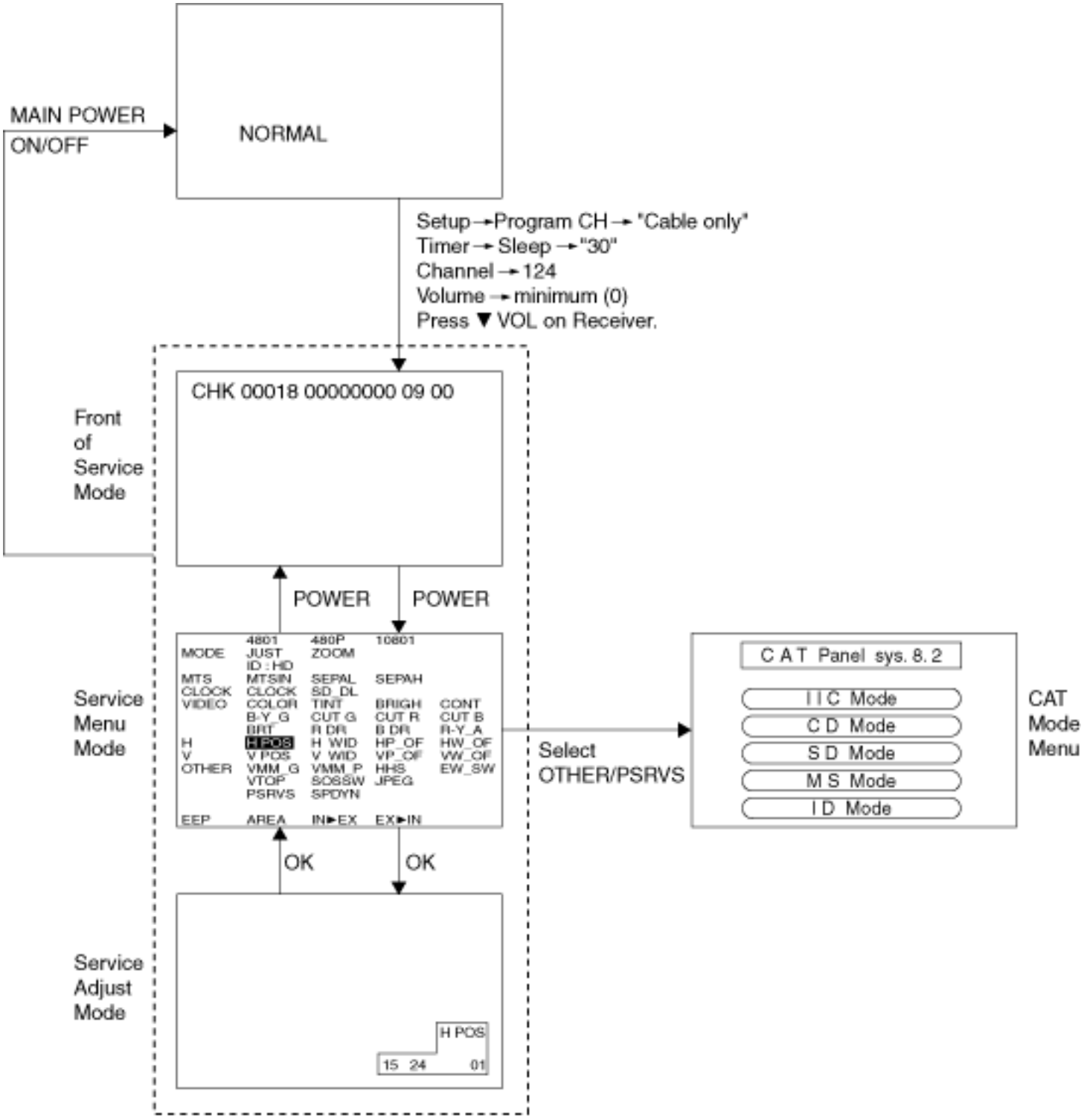
3. Press MENU button twice to exit menus.

4. Tune to the Channel 124.

5. Adjust VOLUME to minimum (0).

6. Press the VOL

   ◂ button (decrease) on set . Red CHK appears in upper corner.



Exiting the Serviceman Mode:

Press the Power button on the Receiver.

For Adjustments:

1. Press Channel Up/Down on the Remote Control to select one of the available Service Adjustments and press the OK button.

   Note:

Write Down the original value set for each address before modifying anything. It is easy to erroneously adjust the wrong item.

2. Press Volume Up/Down on the Remote Control to adjust the level of the selected Service Adjustment.

MAIN ITEM	SUB ITEM	ORIGINAL VALUE	EEPROM ADRESS		DEFAULT LEVEL
			SLEEVE	SUB	
VIDEO	COLOR	00	1A		15
	TINT	00	1B		01
	BRIGH	00	20	09	B0
	CONT	00	24	02	85
	B-Y-G	00	1C		3E
	CUT G	00	28		80
	CUT R	00	2E	01	00
	CUT B	00	31	01	00
	BRT	00	A5	09	B0
	R DR	00	46		7D
	B DR	00	47		7E
	R-Y-A	00	1D		00
H	H POS	15	24		FD
	H WID	15	23		08
	HP OF	15	81		00
	HW OF	15	80		00
V	V POS	15	26		08
	V WID	15	25	[]	15
	VP OF	15	83		00
	VW OF	15	82		00
	EW-SW	00	9E		00
	VTOP	00	9E		B8
OTHER	SOSSW	01	97		01
	JPEG	00	F1		00
	POFWT	15	89		0A
	PSRVS	15	85		00
	SPDYN	15	86		00
EEP	AREA	15	9C		ALL
	IN ▸EX	15	9D		

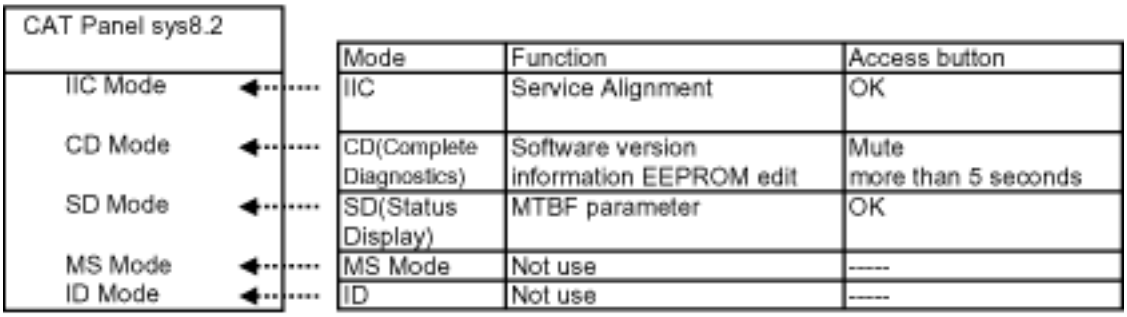
	EX IN	15	9E		

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10 CAT (computer Aided Test) mode

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CAT mode menu



Mode	Function	Access button
IIC	Service Alignment	OK
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	OK
MS Mode	Not use	-----
ID	Not use	-----

How to access the CAT mode.

1. Enter the serviceman mode.
2. Select the OTHER (PSRVS).
3. Press the OK button on the remote control.

To exit the CAT mode , and switch off the main power.

10.1 IIC mode

10.2 CD mode

10.3 SD mode

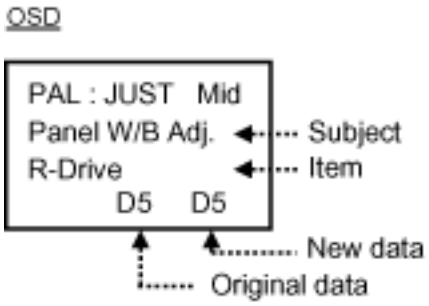
10.4 IIC mode structure (following items value is sample data.)

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10.1 IIC mode

TOP PREVIOUS NEXT

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.



How to use the IIC mode.

1. Select the alignment **Subject** by **1/2 buttons** on the remote control.
2. Select the alignment **Item** by **3/4 buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

IIC mode structure .

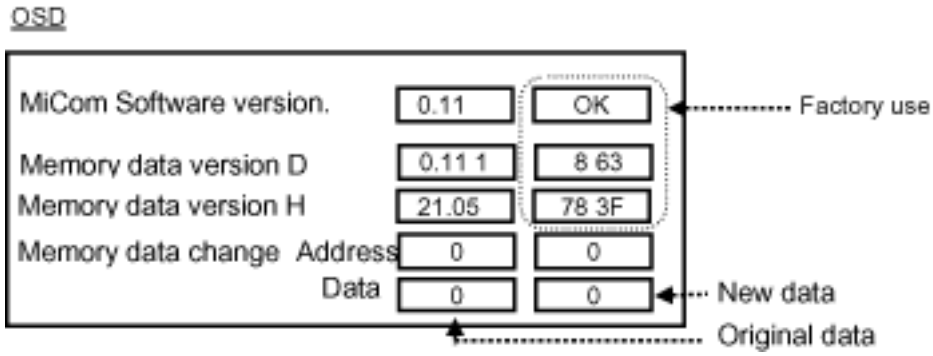
To exit the IIC mode, press the RECALL or MENU button on the remote control.

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10.2 CD mode

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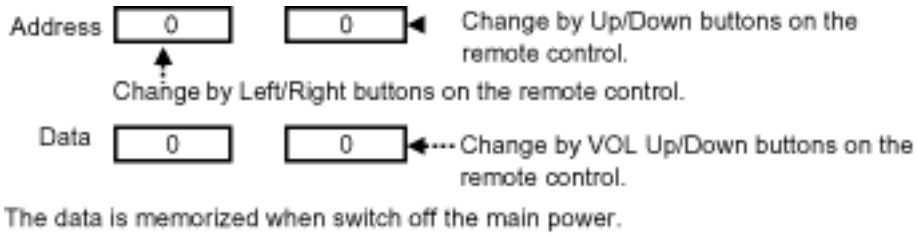
Select the CD mode by Up/Down button on the remote control at the front page of CAT mode then press the Mute button on the remote control more than 5 sec.



Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC
2. Loading the new version software from loader tool, TZSC07036.

Memory data change



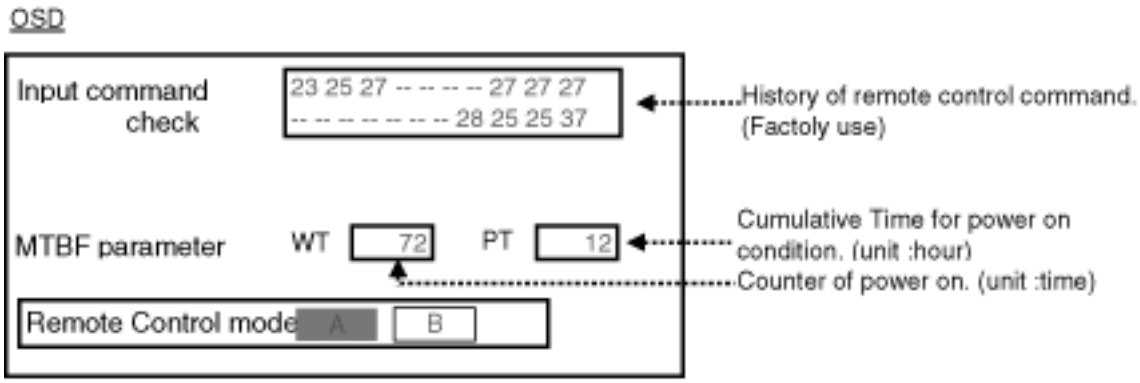
To exit the CD mode, press the RECALL or MENU button on the remote control.

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10.3 SD mode

TOP PREVIOUS NEXT

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the OK button on the remote control.

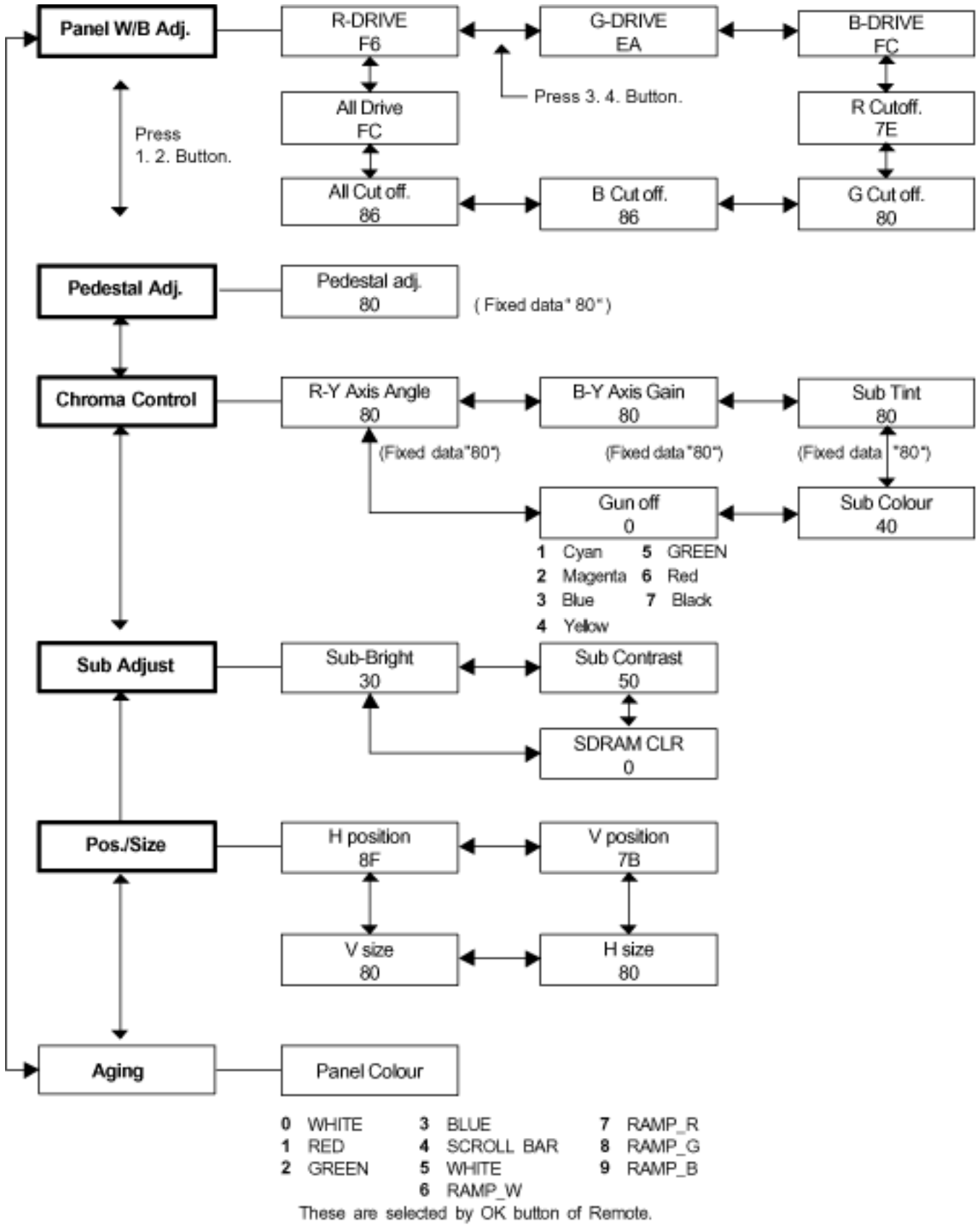


To exit the SD mode, press the RECALL or MENU button on the remote control.

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10.4 IIC mode structure (following items value is sample data.)

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11 Adjustment Procedure

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11.1 + B Set-up

11.1.1 Item / Preparation

11.1.2 Adjustment / Confirmation

11.2 Driver Set-up

11.2.1 Item / Preparation

11.2.2 Adjustments

11.3 Initialization Pulse Adjust

11.4 P.C.B. (Printed Circuit Board) exchange

11.4.1 Caution

11.4.2 Quick adjustment after P.C.B. exchange

11.5 Adjustment Volume Location

11.6 Test Point Location

TOP PREVIOUS NEXT

11.1 + B Set-up

TOP PREVIOUS NEXT

11.1.1 Item / Preparation

11.1.2 Adjustment / Confirmation

TOP PREVIOUS NEXT

11.1.1 Item/ Preparation

TOP PREVIOUS NEXT

1. Input a Grey scale signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Normal

TOP PREVIOUS NEXT

11.1.2 Adjustment/ Confirmation

TOP PREVIOUS NEXT

Adjust and confirm indicated test point for the specified voltage.

Adjust

Name	Volume	Voltage	Test Point	Remarks
Vsus	R605	170V ± 1V	P11 pin 2	
Vda	R590	67V ± 0.5V	P12 pin 1	

Confirm

Name	Voltage	Test Point	Remarks
15V	15.4V ± 0.5V	P23 pin 1	
15V	15.2V ± 0.5V	P7 pin 1	
12V	11.8V ± 0.5V	P25 pin 1	
Audio 12V	12.5V ± 0.8V	P5 pin 7	
5V	5.1V ± 0.3V	P25 pin 5	
STB 5V	5.0V ± 0.3V	P27 pin 4	
Fan 15V	15.4V ± 0.5V	P10 pin 1	
Fan 5V	5.1V ± 0.3V	P10 pin 4	
PFC	380V ± 15V	C468(+), C468(-)	

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11.2 Driver Set-up

TOP PREVIOUS NEXT

11.2.1 Item / Preparation

11.2.2 Adjustments

TOP PREVIOUS NEXT

11.2.1 Item/ Preparation

TOP PREVIOUS NEXT

1. Input an APL 100 % white signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

   Aspect: 16:9

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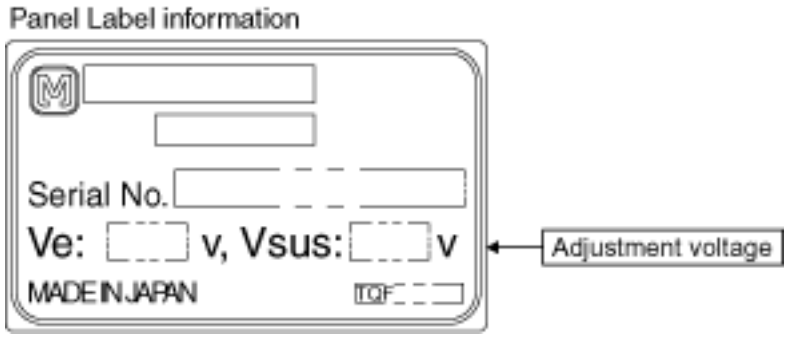
11.2.2 Adjustments

TOP PREVIOUS NEXT

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
Vset	TPVSET (SC)	218V ± 6V	Fixed	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	Fixed	
Vda	TPVDA (SS)	67V ± 1V	R590 (P)	

*See the Panel label.



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11.3 Initialization Pulse Adjust

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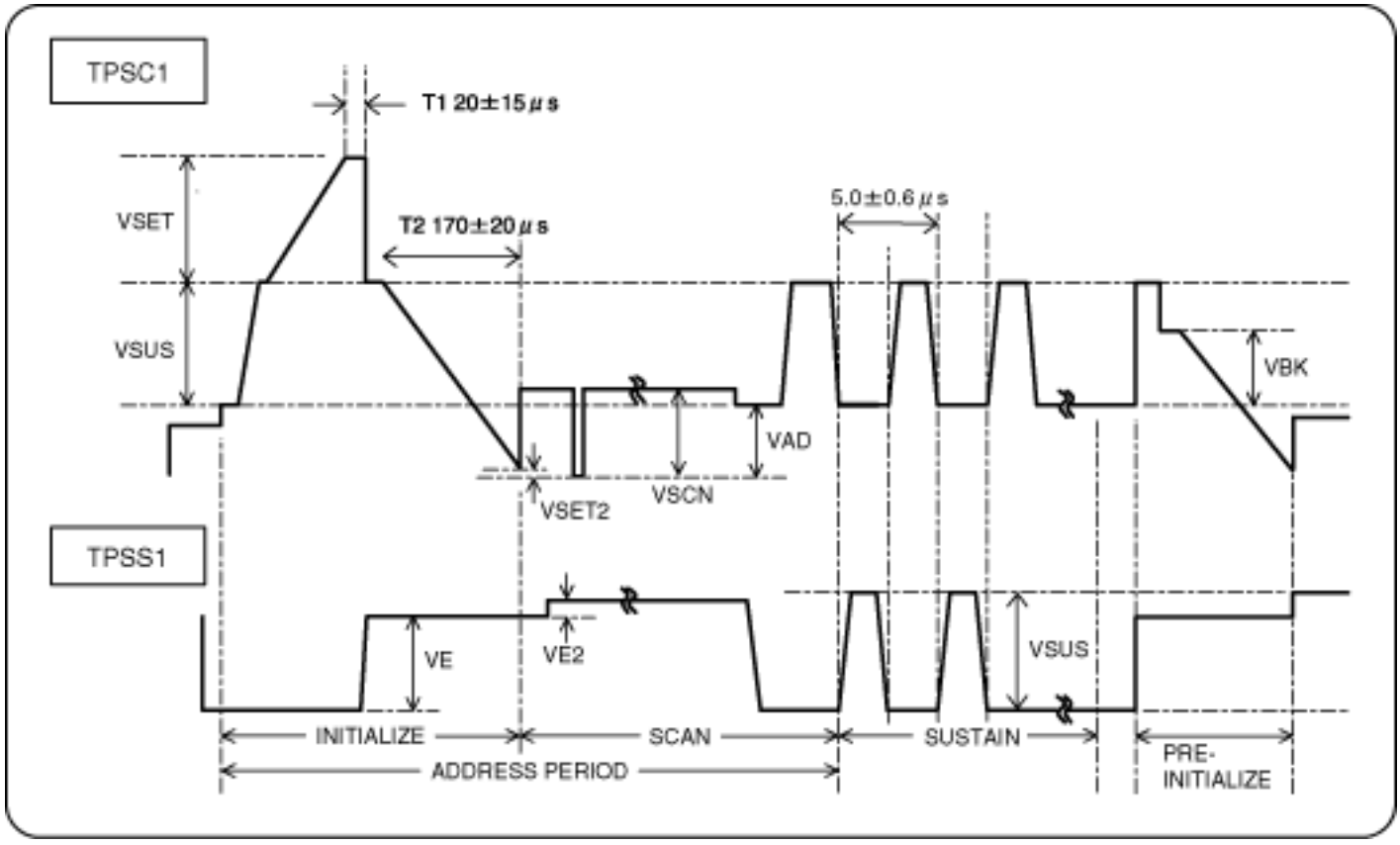
1. Input a Cross hatch signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	R6523 (SC)	20 ± 15µ Sec
T2	TPSS1 (SS)	R6557 (SC)	170 ± 20µ Sec



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11.4 P.C.B. (Printed Circuit Board) exchange

TOP PREVIOUS NEXT

11.4.1 Caution

11.4.2 Quick adjustment after P.C.B. exchange

TOP PREVIOUS NEXT

11.4.1 Caution

TOP PREVIOUS NEXT

1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

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11.4.2 Quick adjustment after P.C.B. exchange

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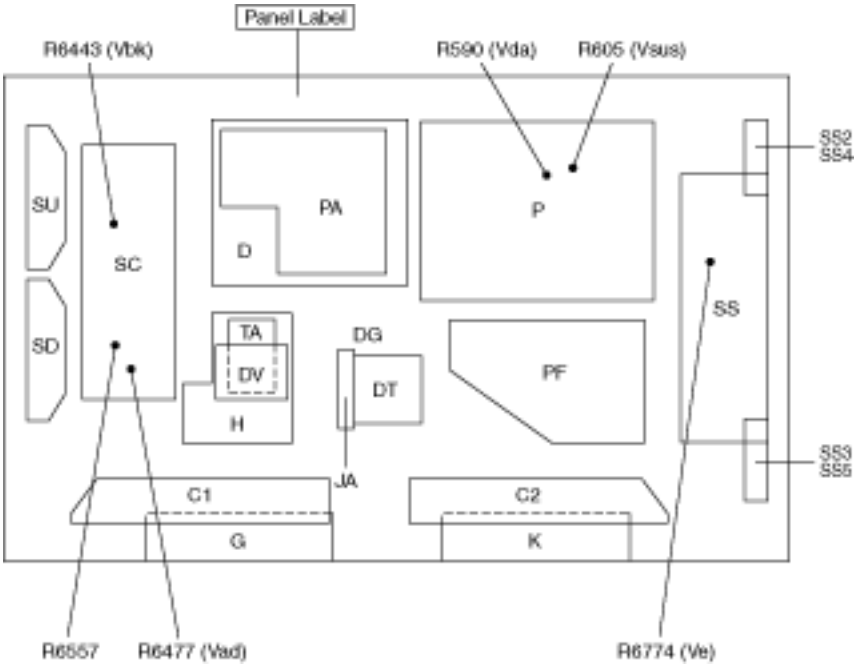
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R590 (P)	
SC Board	Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	218V ± 6V	---	
	Vscn	TPVSCN (SC)	Vad + 118 ± 2V	---	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
D, DG Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

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11.5 Adjustment Volume Location

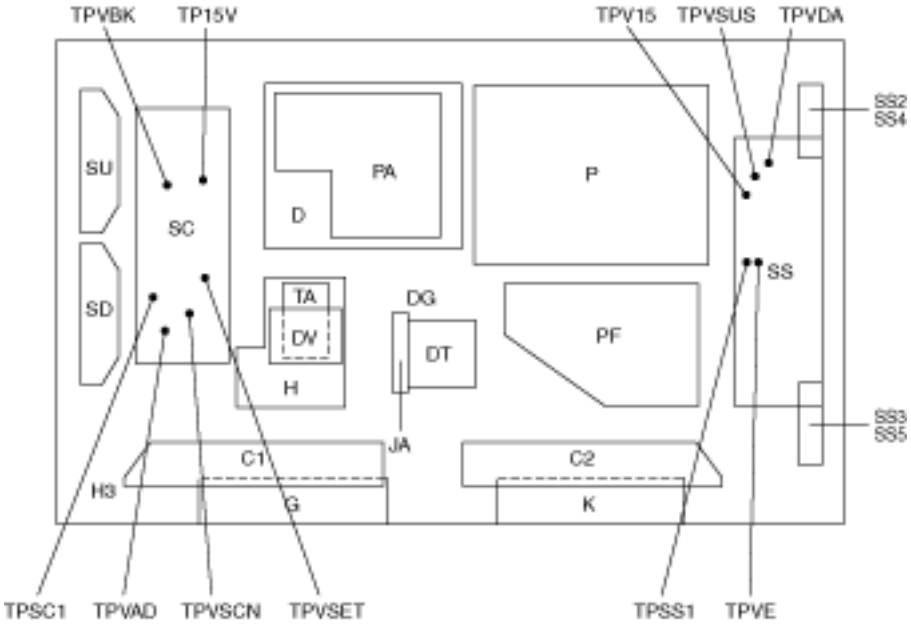
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11.6 Test Point Location

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12 Adjustment

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12.1 Pedestal setting

12.2 NTSC panel white balance

12.3 HD panel white balance

12.4 Sub brightness setting

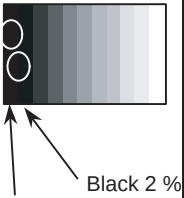
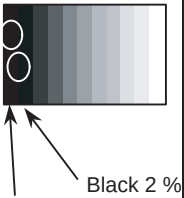
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12.1 Pedestal setting

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	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RF Gray Scale Pattern  		Pic Mode: Standard Color Temp: **Cool** Aspect: 16:9	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright Chroma Control: Gun off RGB Sub Adjust: B Sub Bright Chroma Control: Gun off RGB Sub Adjust: R Sub Bright	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". Set R,G and B drive to " **F0** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright 1 to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright 1 to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright 1 to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	HD Gray Scale Pattern  		Pic Mode: Standard Color Temp: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to HD signal. 2) Repeat procedure 1) to 7) of Component input signal.

12.2 NTSC panel white balance

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12.3 HD panel white balance

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12.4 Sub brightness setting

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13 Hotel mode

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1. Purpose

   Restrict a function for hotels.

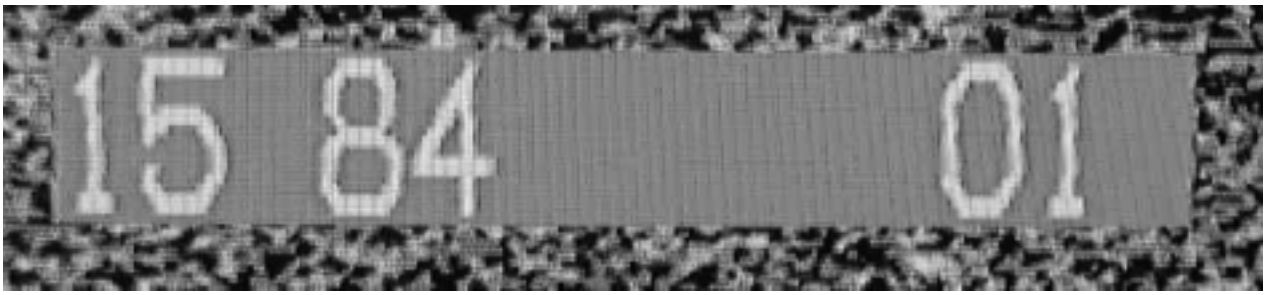
2. Access command

   - Enter to the Service Mode.



3. Press MUTE button on remote control. Hold few seconds.

4. Press the ch UP or Down button and Vol. UP or Down button to Set the data of EEPROM(ADDRESS 1584) to 01.

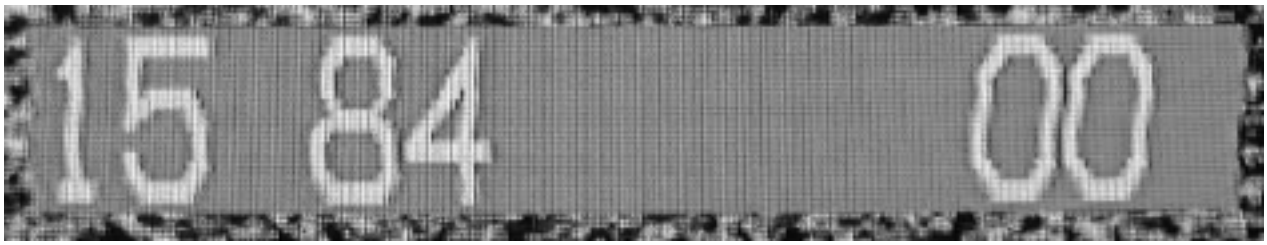


Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.

It can be made Hotel mode.

5. Exit command

   - First, set the data of EEPROM (ADDRESS 1584) to 00.



   Next, Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.

   Then, it is no longer hotel mode.

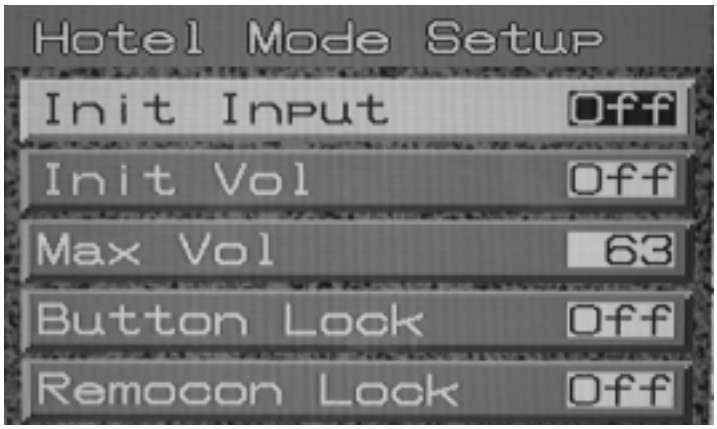
6. Access command to the Hotel mode setup menu

   - <Prerequisite> : It is conditions that the data of EEPROM(ADDRESS 1584) is 01.

   In order to display the Hotel mode setup menu, please enter the following command (within 2 second).

   [[TV] : Vol. Down + [REMOTE] : TV/VIDEO (3 times)]

   Then, the Hotel mode setup menu is displayed.



7. Explain the Hotel mode setup menu

   CAUTION

   This setup is not valid, unless data of EEPROM (ADDRESS 1584) will be 01, even if each settings were done.

item	Function
INITIAL INPUT	Select input signal modes. Set this signal, each time power is switched on. <Selection> : Off/TV/COMP1/COMP2/DIGITAL/VIDEO1/VIDEO2/VIDEO3/PC/JPEG • Off: give priority to a last memory. • PC: selectable with VGA option
INITIAL VOL LEVEL	Adjust output Volume. Set this volume, each time power is switched on. If the value of InitVol is changed, volume will change. However, priority is given to a last memory when InitVol is Off. When"InitVol" is larger than "MaxVol", make "InitVol" and "MaxVol" the same. <Selection/Range> : Off/0 to 63 • Off: give priority to a last memory
MAXIMUM VOL LEVEL	Adjust maximum volume. Set this max. volume, each time power is switched on. When "MaxVol" is smaller than "InitVol", make "MaxVol" and "InitVol" the same, if "InitVol" is not Off. <Range> : 0to 63
INITIAL CH	Select program number. Set this program number, each time power is switched on. <Selection> : Off/0 to C125 • Off: give priority to a last memory
BUTTON LOCK	Select local key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUPMENU/All • Off: altogether valid • Action: restrict ACTION-key selection • All: altogether invalid.
REMOCON LOCK	Select remote control key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUP/MENU • Off: altogether valid • Action: menu is invalid

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14 Conductor Views

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14.1 PF-Board

14.2 P-Board

14.3 PA-Board

14.4 TB and JA-Board

14.5 H-Board

14.6 DG-Board

14.7 DV-Board

14.8 D-Board

14.9 C1-Board (For TH-37PD25U / P)

14.10 C1-Board (For TH-42PD25U / P)

14.11 C2-Board (For TH-37PD25U / P)

14.12 C2-Board (TH-42PD25U / P)

14.13 SC-Board

14.14 SU-Board (For TH-37PD25U / P)

14.15 SU-Board (For TH-42PD25U / P)

14.16 SD-Board (For TH-37D25U / P)

14.17 SD-Board (For TH-42D25U / P)

14.18 SS Board

14.19 SS2, SS3, SS4 and SS5-Board

14.20 K-Board

14.21 G-Board

14.22 DT-Board (PAVCA SUPPLYED)

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14.1 PF-Board

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14.2 P-Board

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14.3 PA-Board

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14.4 TB and JA-Board

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14.5 H-Board

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14.6 DG-Board

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14.7 DV-Board

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TOP PREVIOUS NEXT

14.8 D-Board

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14.9 C1-Board (For TH-37PD25U/ P)

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14.10 C1-Board (For TH-42PD25U/ P)

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14.11 C2-Board (For TH-37PD25U/ P)

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14.12 C2-Board (TH-42PD25U/ P)

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14.13 SC-Board

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14.14 SU-Board (For TH-37PD25U/ P)

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14.15 SU-Board (For TH-42PD25U/ P)

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14.16 SD-Board (For TH-37D25U/ P)

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14.17 SD-Board (For TH-42D25U/ P)

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14.18 SS Board

TOP PREVIOUS NEXT





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14.19 SS2, SS3, SS4 and SS5-Board

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14.20 K-Board

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14.21 G-Board

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14.22 DT-Board (PAVCA SUPPLYED)

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15 Block and Schematic Diagrams

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15.2 PF-Board Block Diagram

15.3 PF-Board Schematic Diagram

15.4 P-Board Block Diagram

15.5 P-Board Schematic Diagram

15.6 PA-Board Block Diagram

15.7 PA-Board (1 of 3) Schematic Diagram

15.8 PA-Board (2 of 3) Schematic Diagram

15.9 PA-Board (3 of 3) Schematic Diagram

15.10 DT and JA-Board Block Diagram

15.11 DT-Board (1 of 8) Schematic Diagram

15.12 DT-Board (2 of 8) Schematic Diagram

15.13 DT-Board (3 of 8) Schematic Diagram

15.14 DT-Board (4 of 8) Schematic Diagram

15.15 DT-Board (5 of 8) Schematic Diagram

15.16 DT-Board (6 of 8) Schematic Diagram

15.17 DT-Board (7 of 8) Schematic Diagram

15.18 DT-Board (8 of 8) Schematic Diagram

15.19 JA and TB-Board Schematic Diagram

15.20 H and TB-Board Block Diagram

15.21 H-Board (1 of 2) Schematic Diagram

15.22 H-Board (2 of 2) Schematic Diagram

15.23 DG-Board Block Diagram

15.24 DG-Board (1 of 7) Schematic Diagram

15.25 DG-Board (2 of 7) Schematic Diagram

15.26 DG-Board (3 of 7) Schematic Diagram

15.27 DG-Board (4 of 7) Schematic Diagram

15.28 DG-Board (5 of 7) Schematic Diagram

15.29 DG-Board (6 of 7) Schematic Diagram

15.30 DG-Board (7 of 7) Schematic Diagram

15.31 DV-Board Block Diagram

15.32 DV-Board (1 of 3) Schematic Diagram

15.33 DV-Board (2 of 3) Schematic Diagram

15.34 DV-Board (3 of 3) Schematic Diagram

15.35 D-Board Block Diagram

15.36 D-Board (1 of 12) Schematic Diagram

15.37 D-Board (2 of 12) Schematic Diagram

15.38 D-Board (3 of 12) Schematic Diagram

15.39 D-Board (4 of 12) Schematic Diagram

15.40 D-Board (5 of 12) Schematic Diagram

15.41 D-Board (6 of 12) Schematic Diagram

15.42 D-Board (7 of 12) Schematic Diagram

15.43 D-Board (8 of 12) Schematic Diagram

15.44 D-Board (9 of 12) Schematic Diagram

15.45 D-Board (10 of 12) Schematic Diagram

15.46 D-Board (11 of 12) Schematic Diagram

15.47 D-Board (12 of 12) Schematic Diagram

15.48 C1, C2, G, and K-Board Block Diagram

15.49 C1-Board Schematic Diagram (TH-37PD25U / P)

15.50 C1-Board Schematic Diagram (TH-42PD25U / P)

15.51 C2-Board (1 of 2) Schematic Diagram (TH-37PD25U / P)

15.52 C2-Board (2 of 2) Schematic Diagram (TH-37PD25U / P)

15.53 C2-Board Schematic Diagram (TH-42PD25U / P)

15.54 K-Board (1 of 2) Schematic Diagram

15.55 K-Board (2 of 2) Schematic Diagram

15.56 G-Board Schematic Diagram

15.57 SC-Board Block Diagram

15.58 SC-Board (1 of 3) Schematic Diagram

15.59 SC-Board (2 of 3) Schematic Diagram

15.60 SC-Board (3 of 3) Schematic Diagram

15.61 SU-Board Block Diagram

15.62 SU-Board Schematic Diagram (TH-37PD25U / P)

15.63 SU-Board Schematic Diagram (TH-42PD25U / P)

15.64 SD-Board Block Diagram

15.65 SD-Board Schematic Diagram (TH-37PD25U / P)

15.66 SD-Board Schematic Diagram (TH-42PD25U / P)

15.67 SS, S, SS2, SS3, SS4 and SS5-Board Block Diagram

15.68 SS-Board (1 of 2) and S-Board Schematic Diagram

15.69 SS-Board (2 of 2) SS2, SS3, SS4 and SS5-Board Schematic Diagram

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15.1 Schematic Diagram Notes

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Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⏚ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC120V, 50/60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow

8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

TH-37PX25U/P
Schematic Diagram Notes

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

TH-37/42PD25U/P
Schematic Diagram Notes

15.2 PF-Board Block Diagram

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15.3 PF-Board Schematic Diagram

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15.4 P-Board Block Diagram

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15.5 P-Board Schematic Diagram

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15.6 PA-Board Block Diagram

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15.7 PA-Board (1 of 3) Schematic Diagram

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15.8 PA-Board (2 of 3) Schematic Diagram

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15.9 PA-Board (3 of 3) Schematic Diagram

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15.10 DT and JA-Board Block Diagram

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15.11 DT-Board (1 of 8) Schematic Diagram

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15.12 DT-Board (2 of 8) Schematic Diagram

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15.13 DT-Board (3 of 8) Schematic Diagram

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15.14 DT-Board (4 of 8) Schematic Diagram

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15.15 DT-Board (5 of 8) Schematic Diagram

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15.16 DT-Board (6 of 8) Schematic Diagram

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15.17 DT-Board (7 of 8) Schematic Diagram

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15.18 DT-Board (8 of 8) Schematic Diagram

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15.19 JA and TB-Board Schematic Diagram

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15.20 H and TB-Board Block Diagram

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15.21 H-Board (1 of 2) Schematic Diagram

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15.22 H-Board (2 of 2) Schematic Diagram

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15.23 DG-Board Block Diagram

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15.24 DG-Board (1 of 7) Schematic Diagram

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15.25 DG-Board (2 of 7) Schematic Diagram

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15.26 DG-Board (3 of 7) Schematic Diagram

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15.27 DG-Board (4 of 7) Schematic Diagram

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15.28 DG-Board (5 of 7) Schematic Diagram

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15.29 DG-Board (6 of 7) Schematic Diagram

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15.30 DG-Board (7 of 7) Schematic Diagram

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15.31 DV-Board Block Diagram

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15.32 DV-Board (1 of 3) Schematic Diagram

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15.33 DV-Board (2 of 3) Schematic Diagram

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15.34 DV-Board (3 of 3) Schematic Diagram

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15.35 D-Board Block Diagram

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15.36 D-Board (1 of 12) Schematic Diagram

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15.37 D-Board (2 of 12) Schematic Diagram

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15.38 D-Board (3 of 12) Schematic Diagram

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15.39 D-Board (4 of 12) Schematic Diagram

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15.40 D-Board (5 of 12) Schematic Diagram

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15.41 D-Board (6 of 12) Schematic Diagram

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15.42 D-Board (7 of 12) Schematic Diagram

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15.43 D-Board (8 of 12) Schematic Diagram

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15.44 D-Board (9 of 12) Schematic Diagram

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15.45 D-Board (10 of 12) Schematic Diagram

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15.46 D-Board (11 of 12) Schematic Diagram

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15.47 D-Board (12 of 12) Schematic Diagram

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15.48 C1, C2, G, and K-Board Block Diagram

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15.49 C1-Board Schematic Diagram (TH-37PD25U/ P)

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15.50 C1-Board Schematic Diagram (TH-42PD25U/ P)

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15.51 C2-Board (1 of 2) Schematic Diagram (TH-37PD25U/ P)

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15.52 C2-Board (2 of 2) Schematic Diagram (TH-37PD25U/ P)

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15.53 C2-Board Schematic Diagram (TH-42PD25U/ P)

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15.54 K-Board (1 of 2) Schematic Diagram

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15.55 K-Board (2 of 2) Schematic Diagram

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15.56 G-Board Schematic Diagram

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15.57 SC-Board Block Diagram

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15.58 SC-Board (1 of 3) Schematic Diagram

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15.59 SC-Board (2 of 3) Schematic Diagram

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15.60 SC-Board (3 of 3) Schematic Diagram

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15.61 SU-Board Block Diagram

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15.62 SU-Board Schematic Diagram (TH-37PD25U/ P)

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15.63 SU-Board Schematic Diagram (TH-42PD25U/ P)

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15.64 SD-Board Block Diagram

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15.65 SD-Board Schematic Diagram (TH-37PD25U/ P)

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15.66 SD-Board Schematic Diagram (TH-42PD25U/ P)

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15.67 SS, S, SS2, SS3, SS4 and SS5-Board Block Diagram

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15.68 SS-Board (1 of 2) and S-Board Schematic Diagram

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15.69 SS-Board (2 of 2) SS2, SS3, SS4 and SS5-Board Schematic Diagram

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16 Parts Location& Mechanical Replacement Parts List

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16.1 Parts Location

16.2 Packing Exploded Views (1)

16.3 Packing Exploded Views (2)

16.4 Packing Exploded Views (3)

16.5 Mechanical Replacement Parts List

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16.1 Parts Location

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16.2 Packing Exploded Views (1)

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16.3 Packing Exploded Views (2)

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16.4 Packing Exploded Views (3)

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16.5 Mechanical Replacement Parts List

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAB442BL2	SPEAKER (LEFT)	1	
2	EAB442BR2	SPEAKER (RIGHT)	1	
3	EUR7627Z10	REMOTE CONTROL	1	
	J0KD00000071	FLAT CORE	2	
4	J0KF00000018	FILTER	5	
5	J0KG00000014	FILTER	4	
	K2AH3H000028	AC INLET	1	⚠
6	K2CG3DH00025	AC CORD	1	⚠
7	K4DJD0000017	F TERMINALi3C TYPEj	2	
8	MD37S06B1J	PLASMA DISPLAY PANEL	1	TH-37PD25U/P ⚠
8	MD42S06B1J	PLASMA DISPLAY PANEL	1	TH-42PD25U/P ⚠
9	TBMA138	PANASONIC BADGE	1	
10	TBXA36303	POWER BUTTON	1	
11	TBXA36401	CONTROL BUTTON	1	
12	TEK6935	DOOR SWITCH	1	
	TEKC011	DAMPER	1	
	TES4G204	SPRING	1	
	THEL023Z	SCREW	28	
	THEL027N	SCREW	3	
	THEL035N	SCREW	58	
	THTF003Y	SCREW	11	
13	TJSD00401	F TERMINAL (5C TYPE)	2	K1RGZBA00001
14	TKGA5149	FRONT GLASS	1	

	TKKC5151	LED PANEL	1	
15	TKKL5231	COVER	4	
16	TKKL5269	ADJUSTMENT COVER	1	
17	TKRA06806	HANDLE	2	
	TMM15414-2	CLAMPER	2	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	10	
	TMM7464-2	CLAMPER	3	
	TMME047	CLAMPER	11	
	TMME061	CLAMPER	3	
	TMME075	EADG SADOLE	4	
	TMME108	CABLE STRAP	1	
	TMME110	CLAMPER	1	
	TMME152	CLAMPER	2	
	TMME226	CLAMPER	2	
	TMMJ044	SPEAKER RUBBER	8	
	TMWJ034	LED HOLDER	1	
	TMWJ035	IR HOLDER	1	
18	TPCB61901	CARTON BOX	1	TH-42PD25U/P ⚠
19	TPCB62001	BOTTOM CARTON	1	TH-42PD25U/P
18	TPCB62101	CARTON BOX	1	TH-37PD25U/P ⚠
19	TPCB62201	BOTTOM CARTON	1	TH-37PD25U/P
20	TPD169487	JOINT	4	
21	TPDA1013	CUSHION(UPPER)	1	
22	TPDA1014	CUSHION(BOTTOM)	1	
23	TPDA1015	CUSHION	1	
24	TPDF1256	UPPER PAD	1	TH-42PD25U/P
24	TPDF1257	UPPER PAD	1	TH-37PD25U/P
25	TPDF1260	PAPER BOX	1	
26	TPEH170	PROTECT COVER	1	
27	TQBC0761	INSTRUCTION BOOK(ENGLISH)	1	⚠
28	TQBC0762	INSTRUCTION BOOK(SPANISH)	1	⚠
29	TQBC7060-2	SERVICE CENTER LIST	1	
30	TQEF035	POLY BAG	1	

	TSXL222	CABLE(C1-C2)	1	
	TSXL278	CABLE(D-C1/2)	2	TH-42PD25U/P
	TSXL298	CABLE(D-C1/2)		TH-37PD25U/P
31	TTEA0174	ESCUTCHEON	1	TH-42PD25U/P ⚠
31	TTEA0175	ESCUTCHEON	1	TH-37PD25U/P ⚠
32	TTPA0321	BOTTOM DOOR	1	
33	TTUA0876	REAR COVER	1	TH-42PD25U/P ⚠
33	TTUA0877	REAR COVER	1	TH-37PD25U/P ⚠
34	TXFMZ010QCS	STAND POOL BRACKET	2	
	TXJPA30QCS	SPEAKER LEAD (LEFT/RIGHT)	1	
	TXJTU2UHSU	RF CABLE	1	
	XTB4+10A	SCREW	27	
	XTB4+15AFZ	SCREW	8	
	XTB4+20A	SCREW	7	
	XTS3+10J	SCREW	1	
	XTV3+10JFZ	SCREW	5	
	XTV3+6J	SCREW	1	
	XTW3+6J	SCREW	4	
	XTW4+Z15D	SCREW	8	
	XYC4+FJ35FZ	SCREW	12	
	XYN3+F10	SCREW	11	
	XYN3+F10FZ	SCREW	2	
	XYN3+F8	SCREW	40	
	XYN3+J10	SCREW	4	
	XYN3+J8	SCREW	9	
	XYN4+E8	SCREW	1	
	XYN5+C20	SCREW	8	
35	XZBT6506	POLY BAG	1	

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17 Replacement Parts List

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17.1 Replacement Parts List Notes

17.2 Electrical Replacement Parts List

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17.1 Replacement Parts List Notes

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Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal Film	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

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17.2 Electrical Replacement Parts List

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F902	K5D312BK0012	FUSE	1	⚠
F900.901	K5Y802B00001	FUSE	2	⚠
C11	K1MN50B00026	50P CONNECTOR	1	
C12	K1MN20B00043	20P CONNECTOR	1	
C21	K1MN50B00026	50P CONNECTOR	1	
C22	K1MN20B00043	20P CONNECTOR	1	
C23	K1KA11A00102	11P CONNECTOR	1	
C24	K1KA08A00232	8P CONNECTOR	1	
C300	EEEHB1C470P	C 47PF, J, 16V	1	
C301	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C304,05	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C403-05	ECKDAE472ZE	C 4700PF, Z,	3	⚠
C406	ECA2WHG100	E 10UF, 450V	1	
C407	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C408	ECKD3D392KBP	C 3900PF, K, 2KV	1	
C409	ECA1EHG470	E 47UF, 25V	1	
C411	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C412	ECA1HHG100	E 10UF, 50V	1	
C414	ECKD2H561KB2	C 560PF, K,500V	1	
C415	ECJ3VC1H472J	C 4700PF, J, 50V	1	
C416	EEUFC1C471	E 470UF, 16V	1	
C417	ECA1EHG470	E 47UF, 25V	1	
C418	ECA1CHG101	E 100UF, 16V	1	
C419	ECA1AHG471	E 4700UF, 10V	1	
C420	ECA1EHG101	E 100UF, 25V	1	
C421,22	ECQB1H104JF	P 0.1UF, J, 50V	2	
C423	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C451-53	ECKDAE472ZE	C 4700PF, Z,	3	⚠
C455	ECQE6105JF	P 1UF, J,630V	1	
C456	EEUFC1V331	E 330UF, 35V	1	

C457	ECQB1H103JF	P 0.01UF, J, 50V	1	
C458	ECJ2VC1H821J	C 820PF, J, 50V	1	
C459	EEUFC1H330	E 33UF, 50V	1	
C460	ECJ2XC1H101J	C 100PF, J, 50V	1	
C461	ECJ2XC1H331J	C 330PF, J, 50V	1	
C462	ECQB1H104JF	P 0.1UF, J, 50V	1	
C463	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C464	ECQB1H104JF	P 0.1UF, J, 50V	1	
C465	ECA1HHG010	E 1UF, 50V	1	
C466	ECKD3D101KBP	C 100PF, K, 2KV	1	
C468,69	EETHC2W331L	E 330UF, 450V	2	
C470	ECA1EHG331	E 330UF, 25V	1	
C471	ECQB1H104JF	P 0.1UF, J, 50V	1	
C548	EEUEB1E101	E 100UF, 25V	1	
C549	EEUEB1H101	E 100UF, 50V	1	
C550	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C551,52	ECJ2XC1H471J	C 470PF, J, 50V	2	
C553	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C554	ECJ2XC1H221J	C 220PF, J, 50V	1	
C555	EEUEB1E101	E 100UF, 25V	1	
C556	EEUEB1H220	E 22UF, 50V	1	
C557	ECQE6473KF	P 0.047UF, K,630V	1	
C558	ECKD3D101KBP	C 100PF, K, 2KV	1	
C559	ECQE6473KF	P 0.047UF, K,630V	1	
C560	ECKD3D221KBP	C 220PF, K, 2KV	1	
C561,62	ECJ3VC1H472J	C 4700PF, J, 50V	2	
C563	ECKDNA102KB	C 1000PF, Z,	1	⚠
C564	ECKD3A101KBP	C 100PF, K, 1KV	1	
C565	EETHC2C821B	E 820UF, 160V	1	
C566	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C567,68	ECJ3VC1H472J	C 4700PF, J, 50V	2	
C569	ECKD3A101KBP	C 100PF, K, 1KV	1	
C570	ECKD3A471KBP	C 470PF, K, 1KV	1	
C571	ECKD3A101KBP	C 100PF, K, 1KV	1	
C572	EEUFC1E222	E 2200UF, 25V	1	
C573,74	EETHC2D182L	E 1800UF, 200V	2	
C575	EEUEB1H220	E 22UF, 50V	1	
C576	EEUFC1E222	E 2200UF, 25V	1	

C577	ECA1EHG222	E 2200UF, 25V	1	
C578	ECQB1H332JF	P 3300PF, J, 50V	1	
C579	ECA1EHG221	E 220UF, 25V	1	
C581	EEUFC0J122	E 1200UF, 6.3V	1	
C583	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C584	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C585	EEUEB1E101	E 100UF, 25V	1	
C586	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C590	EEUFC1E222	E 2200UF, 25V	1	
C591	ECKD3A101KBP	C 100PF, K, 1KV	1	
C650	EEUEB1H101	E 100UF, 50V	1	
C901	ECQU2A105BN9	P 1UF, 250V	1	⚠
C902	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C903	ECQU2A105BN9	P 1UF, 250V	1	⚠
C910,11	ECKDNB221MB	C 220PF, Z,	2	⚠
C914	ECKDNA471KB7	C 470PF, Z,	1	⚠
C915	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C916,17	ECKDNB102KB	C 1000PF, Z,	2	⚠
C920	EETHC2D561H	E 560UF, 200V	1	
C921	ECKD3D152KBP	C 1500PF, K, 2KV	1	
C922	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C923	ECQF4103JZ	P 0.01UF, J,400V	1	
C924	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C925	ECJ2XC1H222J	C 2200PF, J, 50V	1	
C926	ECJ2XC1H101J	C 100PF, J, 50V	1	
C928	EEUFC1E221	E 220UF, 25V	1	
C970	ECKD3A331KBP	C 330PF, K, 1KV	1	
C971	EEUFC1C562	E 5600UF, 16V	1	
C972	ECKD3A331KBP	C 330PF, K, 1KV	1	
C973	EEUFC1V681	E 680UF, 35V	1	
C974	ECJ2XC1H222J	C 2200PF, J, 50V	1	
C975	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C990	ECA1HHG100	E 10UF, 50V	1	
C2301-04	ECJ2XB1H682K	C 6800PF, K, 50V	4	
C2305,06	ECA1VHG470	E 47UF, 35V	2	
C2307,08	ECA1HHG220	E 22UF, 50V	2	
C2309,10	ECA1HEN2R2	E 2.2UF, 50V	2	

C2311,12	ECJ2XB1H682K	C 6800PF, K, 50V	2	
C2313,14	ECA1HHG2R2	E 2.2UF, 50V	2	
C2315,16	ECQV1H473JM	P 0.047UF, J, 50V	2	
C2317,18	ECA1VHG221	E 220UF, 35V	2	
C2321,22	ECQV1H225JM	P 2.2UF, J, 50V	2	
C2323,24	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C2325,26	ECA1EHG471	E 470UF, 25V	2	
C2327-30	ECQV1H104JM	P 0.1UF, J, 50V	4	
C2331,32	ECJ2XB1E104K	C 0.1UF, K, 25V	2	
C2333,34	ECA1EHG471	E 470UF, 25V	2	
C2337,38	ECA1CHG101	E 100UF, 16V	2	
C2339	ECA1HHG100	E 10UF, 50V	1	
C2342	ECA1HHG100	E 10UF, 50V	1	
C2352	ECA1CHG101	E 100UF, 16V	1	
C2381	ECA1HHG100	E 10UF, 50V	1	
C2382	ECA1CHG101	E 100UF, 16V	1	
C2401,02	ECJ1VB1H182K	C 1800PF, K, 50V	2	
C2403,04	ECA1HEN4R7	E 4.7UF, 50V	2	
C2407	ECJ1VB1H562K	C 5600PF, K, 50V	1	
C2408	ECA1CHG470	E 47UF, 16V	1	
C2412	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2413	ECA1HHG470	E 47UF, 50V	1	
C2414	ECA1EHG470	E 47UF, 25V	1	
C2415	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2428	ECA1CHG101	E 100UF, 16V	1	
C2429	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2430	ECA1CHG101	E 100UF, 16V	1	
C2431	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3712	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C5001	EEEHB1C100R	C 10PF, J, 16V	1	
C5002-04	ECJ2XB1H682K	C 6800PF, K, 50V	3	
C5005	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5006	EEEHB1C100R	C 10PF, J, 16V	1	
C5007	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5012,13	EEFCD0J470R	47UF	2	
C5014	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5015	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C5016	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C5017,18	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	

C5019	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C5020	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5021	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C5022	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5023	EEFCD0J470R	47UF	1	
C5024	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C5025	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C5026,27	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C5028,29	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C5030	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5031	EEFCD0J470R	47UF	1	
C5032	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C5033,34	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C5035	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C5036	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5037	EEFCD0J470R	47UF	1	
C5038	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C5039,40	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C5041	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C5042	EEFCD0J470R	47UF	1	
C5044	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5045	EEFCD0J470R	47UF	1	
C5046	ECJ1VB1C473K	C 0.047UF, K, 16V	1	
C5047,48	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C5049	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5050	ECJ2YB0J335K	C 3.3UF, Z,6.3V	1	
C5051	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C5054	EEFCD0J470R	47UF	1	
C5056	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5057	ECJ1XC1H101J	C 100PF, J, 50V	1	
C5063	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C5074	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C5075	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C5076	EEFCD0J470R	47UF	1	
C5077,78	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C5081,82	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C5083	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5084	EEEHB1C100R	C 10PF, J, 16V	1	
C5085-88	ECJ3XF1C475Z	C 4.7UF, Z, 16V	4	

C5089,90	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C5091,92	EEEHB1C470P	C 47PF, J, 16V	2	
C5093	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5094	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C5095	EEEHB1C220R	C 22PF, J, 16V	1	
C5096	ECJ1XC1H181J	C 180PF, J, 50V	1	
C5097,98	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C5099	ECJ1XC1H181J	C 180PF, J, 50V	1	
C5100,01	ECJ1XC1H330J	C 33PF, J, 50V	2	
C5102	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C5103	EEEHB1C470P	C 47PF, J, 16V	1	
C5104,05	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C5106,07	EEEHP1C100R	C 10PF, J, 16V	2	
C5108,09	ECJ1VB1H272K	C 2700PF, K, 50V	2	
C5110	EEEHB1A330R	C 33PF, J, 10V	1	
C5111	EEEHB0J470R	C 47PF, J,6.3V	1	
C5112,13	ECJ2XB1H682K	C 6800PF, K, 50V	2	
C5114,15	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C5116	EEEHB1C470P	C 47PF, J, 16V	1	
C5117	EEEHB1A330R	C 33PF, J, 10V	1	
C5118	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C5119	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C5120	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C5121	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C5122	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C5123	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C5124,25	EEEHB1C470P	C 47PF, J, 16V	2	
C5126	EEEHB1A330R	C 33PF, J, 10V	1	
C5127	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C5128	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C5129	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C5130,31	ECJ2YB0J335K	C 3.3UF, Z,6.3V	2	
C5132,33	ECJ2XB1H682K	C 6800PF, K, 50V	2	
C5134	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C5135	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C6009	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6026,27	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C6030	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6032	ECJ3XB0J106M	C 10UF, M,6.3V	1	

C6034,35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6040	EEEHB0J221UP	C 220PF, J,6.3V	1	
C6041,42	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C6043	EEEHB0G101R	C 100PF, J, 4V	1	
C6044	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C6046-55	ECJ1XF1C104Z	C 0.1UF, Z, 16V	10	
C6056	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C6057	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C6058-70	ECJ1XF1C104Z	C 0.1UF, Z, 16V	13	
C6071	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C6072	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6073	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C6074	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6075	ECJ1XC1H470J	C 47PF, J, 50V	1	
C6077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6078	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C6080,81	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6082	EEEHB0G101R	C 100PF, J, 4V	1	
C6083,84	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6086	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C6087	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6088	ECJ1XC1H470J	C 47PF, J, 50V	1	
C6089	EEEHB1C100R	C 10PF, J, 16V	1	
C6090	ECJ1VC1H270J	C 27PF, J, 50V	1	
C6091	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6092	ECJ1XC1H151J	C 150PF, J, 50V	1	
C6093-96	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C6097	EEEHB0G101R	C 100PF, J, 4V	1	
C6100	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C6101	EEEHB0G101R	C 100PF, J, 4V	1	
C6102	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C6103	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6104	EEEHB0G221P	C 220PF, J, 4V	1	
C6105	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6401-08	TCUY1C105ZFN	C 1UF, 16V	8	
C6411	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6412	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6417	ECJ2XB1H221K	C 220PF, K, 50V	1	
C6421	ECJ2XB1H222K	C 2200PF, K, 50V	1	

C6422	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6427	F1L2E1040002	E 1000UF, 25V	1	
C6429	F1L2E1040002	E 1000UF, 25V	1	
C6431	F1L2E1040002	E 1000UF, 25V	1	
C6433	F1L2E1040002	E 1000UF, 25V	1	
C6452	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6453	TCUY1C105ZFN	C 1UF, 16V	1	
C6454	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6455	EEUFC1E221	E 220UF, 25V	1	
C6456	ECA2CM101	E 100UF, 160V	1	
C6458	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6459	EEUFC1E470	E 47UF, 25V	1	
C6461	ECA1HM101	E 100UF, 50V	1	
C6462-65	ECJ4XB1E475M	C 4.7UF, M, 25V	4	
C6466	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6467	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C6468	TCUY1C105ZFN	C 1UF, 16V	1	
C6469	EEUFC1E221	E 220UF, 25V	1	
C6470	ECA1HM221	E 220UF, 50V	1	
C6471	TCUY1C105ZFN	C 1UF, 16V	1	
C6472	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6473	TCUY1C105ZFN	C 1UF, 16V	1	
C6474	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6475	EEUFC1E221	E 220UF, 25V	1	
C6476	ECA2CM101	E 100UF, 160V	1	
C6478	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6481	F1L2J562A010	C 5600UF, K,6.3V	1	
C6485	F1L2J562A010	C 5600UF, K,6.3V	1	
C6486	F1L2J392A010	E 22UF, 63V	1	
C6490,91	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6492	ECA2VHG100	E 10UF, 350V	1	
C6493	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6501-08	TCUY1C105ZFN	C 1UF, 16V	8	
C6509	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6511,12	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6513	ECA2CM101	E 100UF, 160V	1	
C6521	EEUFC1E470	E 47UF, 25V	1	
C6523	ECA1VM470	E 47UF, 35V	1	
C6524,25	ECJ3FC2D102J	C 1000PF, J,200V	2	

C6526	ECA2EHG220	E 22UF, 250V	1	
C6529	ECJ3XK2J102K	C 1000PF, K,630V	1	
C6531,32	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6534	ECJ3XK2J102K	C 1000PF, K,630V	1	
C6541	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6543,44	ECJ3FC2D102J	C 1000PF, J,200V	2	
C6546	TCUY1C105ZFN	C 1UF, 16V	1	
C6547	ECJ3FC2D102J	C 1000PF, J,200V	1	
C6550	ECA2CM101	E 100UF, 160V	1	
C6571	TCUY1C105ZFN	C 1UF, 16V	1	
C6575-78	TCUY1C105ZFN	C 1UF, 16V	4	
C6580,81	TCUY1C105ZFN	C 1UF, 16V	2	
C6584	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6585	TCUY1C105ZFN	C 1UF, 16V	1	
C6588	TCUY1C105ZFN	C 1UF, 16V	1	
C6589	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6590	TCUY1C105ZFN	C 1UF, 16V	1	
C6591	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6598	ECA2CHG220	E 22UF, 160V	1	
C6601-04	ECA2DHG221	E 220UF, 200V	4	
C6607	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6608	ECA1EM471	E 470UF, 25V	1	
C6611	F1L2J392A010	E 22UF, 63V	1	
C6617	F1L2J562A010	C 5600UF, K,6.3V	1	
C6620	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6621-28	ECQE2105RKB	P 1UF, 250V	8	
C6631,32	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6633	TCUY1C105ZFN	C 1UF, 16V	1	
C6634,35	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6636	TCUY1C105ZFN	C 1UF, 16V	1	
C6637	EEUFC1E121	E 120UF, 25V	1	
C6639	F2A2D1510004	E 150UF, 200V	1	
C6642	F1L2E1040002	E 1000UF, 25V	1	
C6644	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6645	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6646	F2A1V121A085	E 120UF, 35V	1	
C6647	TCUY1C105ZFN	C 1UF, 16V	1	
C6650	ECQE2224KF	P 0.22UF, K,250V	1	
C6651,52	ECJ2XB1H103K	C 0.01UF, K, 50V	2	

C6655,56	EEUFC1A101	E 100UF, 10V	2	
C6660,61	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6695,96	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6701-04	F2A2D1510004	E 150UF, 200V	4	
C6707,08	EEUED2C470	E 47UF, 160V	2	
C6709	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6718	F1L2J392A010	E 22UF, 63V	1	
C6721-28	ECQE2105RKB	P 1UF, 250V	8	
C6731,32	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6733	TCUY1C105ZFN	C 1UF, 16V	1	
C6734,35	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6736	TCUY1C105ZFN	C 1UF, 16V	1	
C6737	ECQE2224KF	P 0.22UF, K,250V	1	
C6739	F1L2E1040002	E 1000UF, 25V	1	
C6740	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6741,42	TCUY1C105ZFN	C 1UF, 16V	2	
C6744	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6746	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6747	F2A2D1510004	E 150UF, 200V	1	
C6748	EEUFC1E221	E 220UF, 25V	1	
C6749	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6750,51	TCUY1C105ZFN	C 1UF, 16V	2	
C6753,54	EEUFC1E221	E 220UF, 25V	2	
C6755	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6756	EEUFC1A101	E 100UF, 10V	1	
C6757	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6760,61	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6772	F1L2J392A010	E 22UF, 63V	1	
C6774,75	F1L2J562A010	C 5600UF, K,6.3V	2	
C7101	TCUY1C105ZFN	C 1UF, 16V	1	
C7102	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7104-06	TCUY1C105ZFN	C 1UF, 16V	3	
C7107	F1K2A1040004	C 0.1UF, 100V	1	
C7113	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7115	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7117	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7135	TCUY1C105ZFN	C 1UF, 16V	1	
C7136	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7137	TCUY1C105ZFN	C 1UF, 16V	1	

C7138	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7139	TCUY1C105ZFN	C 1UF, 16V	1	
C7140	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7142	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7153-55	ECJ1XC1H101J	C 100PF, J, 50V	3	
C7201	TCUY1C105ZFN	C 1UF, 16V	1	
C7202	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7203-06	TCUY1C105ZFN	C 1UF, 16V	4	
C7207	F1K2A1040004	C 0.1UF, 100V	1	
C7210	TCUY1C105ZFN	C 1UF, 16V	1	
C7211	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7213	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7215	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7217	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7235	TCUY1C105ZFN	C 1UF, 16V	1	
C7236	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7237	TCUY1C105ZFN	C 1UF, 16V	1	
C7238	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7239	TCUY1C105ZFN	C 1UF, 16V	1	
C7240	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7242,43	TCUY1C105ZFN	C 1UF, 16V	2	
C7252-56	ECJ1XC1H101J	C 100PF, J, 50V	5	
C7501,02	EEUFC1V471	E 470UF, 35V	2	
C7503	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7505,06	EEUFC1V561	E 560UF, 35V	2	
C7509	ECA1HHG100	E 10UF, 50V	1	
C7511,12	EEUFC1V471	E 470UF, 35V	2	
C7513	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7516	EEUFC1V471	E 470UF, 35V	1	
C7517	EEUFC1E821	E 820UF, 25V	1	
C7518	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7521	EEUFC1E471	E 470UF, 25V	1	
C7522	EEUFC1C821	E 820UF, 16V	1	
C7523	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7525	ECA1HHG100	E 10UF, 50V	1	
C7530	EEUFC1C331	E 330UF, 16V	1	
C7532-34	EEUFC1C331	E 330UF, 16V	3	
C7535-37	ECJ2VF1C474Z	C 0.47UF, Z, 16V	3	
C7541-44	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	

C7568	ECA1HHG220	E 22UF, 50V	1	
C7570	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7573	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C7581	ECA1HHG4R7	E 4.7UF, 50V	1	
C7582	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C7583	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7584	ECJ2XC1H271J	C 270PF, J, 50V	1	
C7585	EEUFC1H100L	E 10UF, 50V	1	
C7588	ECA1HHG100	E 10UF, 50V	1	
C9030,31	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9032,33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9034,35	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9036,37	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9038,39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9040	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9042,43	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9044	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9045,46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9048,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9051	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C9053	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9054-56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9149	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9150	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9153	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9156	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9157-60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9161	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9162	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9163-70	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9172-74	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9175	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9176	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9178-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C9183	ECJ1XC1H102J	C 1000PF, J, 50V	1	

C9186	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9187	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9191	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9192	TCUY1C105ZFN	C 1UF, 16V	1	
C9195	TCUY1C105ZFN	C 1UF, 16V	1	
C9196	ECJ3VB1C104K	C 0.10UF, K, 16V	1	
C9197	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9198	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C9199,00	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9207	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9301	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9302	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9303	EEVHB1C470	E 47UF, 16V	1	
C9304	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9305	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9307	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9308	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9309	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9310	ECJ1XC1H330J	C 33PF, J, 50V	1	
C9311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9314,15	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9316	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9449	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9450	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9453	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9454,55	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9465	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9466	EEVHB0G221	E 220UF, 4V	1	
C9467	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9468	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9470	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9471	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9472	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9474	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9475-77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9478	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9479-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9485-93	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9494,95	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	

C9496	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9598,99	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9601-05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C9607	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9611	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9612	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9613	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9616	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9620,21	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9623	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9625	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9629,30	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9632	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9635	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9700,01	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9702	EEVHB1C470	E 47UF, 16V	1	
C9703	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9705	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9706,07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9708-10	EEVHB1C470	E 47UF, 16V	3	
C9712-17	ECJ1XC1H101J	C 100PF, J, 50V	6	
C9718	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9719	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9720	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9722,23	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9724	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9725	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9726	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9727,28	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9729	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9730-33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9737	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9739-41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9742	EEVHB1C470	E 47UF, 16V	1	
C9743	TCUY1C105ZFN	C 1UF, 16V	1	
C9748,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9750	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9751,52	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9753,54	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	

C9755,56	ECJ1XF1H102Z	C 1000PF, Z, 50V	2	
C9759	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9760	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C9761,62	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9763	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9765	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9766	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9767,68	TCUY1C105ZFN	C 1UF, 16V	2	
C9769	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9951-53	EEVHB1C470	E 47UF, 16V	3	
C9954-56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9957	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9958,59	F2H1E221A007	E 2.2UF, 25V	2	
C9960	ECJ3VB1C104K	C 0.10UF, K, 16V	1	
C9961	EEFUD0G121ER	120UF	1	
C9964,65	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9966	EEVHB0G221	E 220UF, 4V	1	
C9967	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9968	EEVHB1C470	E 47UF, 16V	1	
C9969	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9970	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C9971	ECJ2XC1H222J	C 2200PF, J, 50V	1	
CB1-B7	K1MN48A00002	CONNECTOR	7	
CF901	ERZV10V621P2	VARISTOR	1	⚠
CF902	ERZV07D361	VARISTOR	1	⚠
D3	K1KA40A00140	40P CONNECTOR	1	
D4	K1KA12A00227	12P CONNECTOR	1	
D12	K1KA07A00189	7P CONNECTOR	1	
D20	K1KA20A00180	20P CONNECTOR	1	
D25	K1KA08A00293	8P CONNECTOR	1	
D27	K1KA09A00077	9P CONNECTOR	1	
D31,32	K1MN50B00026	50P CONNECTOR	2	
D300,01	MA152K	DIODE	2	
D302	LNH101WHKAF4	LED	1	
D303	MA152K	DIODE	1	

D308	MA8056M	ZENER DIODE	1	
D309,10	MA152K	DIODE	2	
D401-03	MA152K	DIODE	3	
D404	S1WBA80Z	DIODE	1	⚠
D405	MA3082L	ZENER DIODE	1	
D406	ERA22-10	DIODE	1	
D407	B0HCMM000001	DIODE	1	
D408	PC123FY2	PHOTO COUPLER	1	⚠
D409-11	B0HCMM000001	DIODE	3	
D412	MA3051M	ZENER DIODE	1	
D413	MA3200M	ZENER DIODE	1	
D451	B0FBBR000019	DIODE	1	⚠
D452	B0HCMM000001	DIODE	1	
D453	MA3270M	ZENER DIODE	1	
D454	B0HCMM000001	DIODE	1	
D457	B0HARR000016	DIODE	1	
D458,59	MA3270M	ZENER DIODE	2	
D460	MA3100M	ZENER DIODE	1	
D462	B0EAKT000012	DIODE	1	
D463	M1FS4	DIODE	1	
D550	B0HCMM000001	DIODE	1	
D551,52	B0BA02700021	DIODE	2	
D553-56	B0HCMM000001	DIODE	4	
D557,58	TMPG10G3	DIODE	2	
D559	B0HCMM000001	DIODE	1	
D560	RC3B2LFU1	DIODE	1	
D561,62	B0HCMM000001	DIODE	2	
D563	RC3B2LFU1	DIODE	1	
D564	B0HCMM000001	DIODE	1	
D565,66	PC123FY2	PHOTO COUPLER	2	⚠
D567	B0HARR000009	DIODE	1	
D568	B0HFRJ000012	DIODE	1	
D570	B0HARR000009	DIODE	1	
D571	MA3056M	ZENER DIODE	1	
D572	B0HCMM000001	DIODE	1	
D573,74	B0HFRJ000012	DIODE	2	
D575	M1FS4	DIODE	1	
D576	B0HCMM000001	DIODE	1	

D577-84	MA152K	DIODE	8	
D585	MA3056M	ZENER DIODE	1	
D586	B0HCMM000001	DIODE	1	
D587	M1FS4	DIODE	1	
D589	B0HCMM000001	DIODE	1	
D590	MA152K	DIODE	1	
D592,93	B0HCMM000001	DIODE	2	
D594	MA3056M	ZENER DIODE	1	
D595	MA152K	DIODE	1	
D596	MA3051M	ZENER DIODE	1	
D650	B0HCMM000001	DIODE	1	
D652	B0HCMM000001	DIODE	1	
D654	MA3056M	ZENER DIODE	1	
D660	B0HFRJ000012	DIODE	1	
D661	MA152K	DIODE	1	
D920	D4SB80Z	DIODE	1	⚠
D921	B0EAKT000017	DIODE	1	
D922	MA3100M	ZENER DIODE	1	
D925	B0HCMM000001	DIODE	1	
D926	MA152K	DIODE	1	
D970	B0JARG000010	DIODE	1	
D971	RL3Z	DIODE	1	
D990	MA152K	DIODE	1	
D2301,02	M1FS4	DIODE	2	
D2311,12	MA152K	DIODE	2	
D2314,15	MA111	DIODE	2	
D3715	MA3140M	ZENER DIODE	1	
D3764	MA3140M	ZENER DIODE	1	
D3766	MA3140M	ZENER DIODE	1	
D5001	B0KB00000023	DIODE	1	
D5003-05	B0KB00000023	DIODE	3	
D5007,08	MA152	DIODE	2	
D5011,12	MA3056M	ZENER DIODE	2	
D5013	MA3036H	ZENER DIODE	1	
D5014,15	MA3140M	ZENER DIODE	2	
D6401-03	MA8056H	ZENER DIODE	3	
D6405	D1FL40F4063	DIODE	1	
D6406,07	MA8056H	ZENER DIODE	2	

D6409-12	D1FL40F4063	DIODE	4	
D6451	M1FS4	DIODE	1	
D6453	MA111	DIODE	1	
D6455	MA111	DIODE	1	
D6456	D1FL40F4063	DIODE	1	
D6459	MA111	DIODE	1	
D6460,61	B0HCKS000001	DIODE	2	
D6462	M1FS4	DIODE	1	
D6463	MA8056H	ZENER DIODE	1	
D6464	M1FS4	DIODE	1	
D6465,66	MA8330M	ZENER DIODE	2	
D6468	MA111	DIODE	1	
D6470,71	MA111	DIODE	2	
D6473	MA111	DIODE	1	
D6475	MA111	DIODE	1	
D6476	D1FL40F4063	DIODE	1	
D6477	MA111	DIODE	1	
D6478	B0HCKS000001	DIODE	1	
D6479	MA111	DIODE	1	
D6481,82	MA8330M	ZENER DIODE	2	
D6483-90	MA8056H	ZENER DIODE	8	
D6491-94	D1FL40F4063	DIODE	4	
D6495	B0HCKS000001	DIODE	1	
D6496	M1FS4	DIODE	1	
D6509	MA111	DIODE	1	
D6511	M1FL20UF4063	DIODE	1	
D6512-14	MA111	DIODE	3	
D6515	MA8240M	ZENER DIODE	1	
D6516	MA111	DIODE	1	
D6519	MA111	DIODE	1	
D6520	B0JCKG000001	DIODE	1	
D6521	D1FL40F4063	DIODE	1	
D6522	MA111	DIODE	1	
D6523	D1FL40F4063	DIODE	1	
D6524	MA8051L	ZENER DIODE	1	
D6525	MA111	DIODE	1	
D6526	M1FL20UF4063	DIODE	1	
D6527	MA111	DIODE	1	
D6529	M1FS4	DIODE	1	

D6541	B0HCKS000001	DIODE	1	
D6542	MA111	DIODE	1	
D6543	MA8051L	ZENER DIODE	1	
D6544	MA111	DIODE	1	
D6545	MA8051L	ZENER DIODE	1	
D6546-48	MA8330M	ZENER DIODE	3	
D6549,50	MA111	DIODE	2	
D6551	M1FS4	DIODE	1	
D6552,53	MA111	DIODE	2	
D6570	M1FL20UF4063	DIODE	1	
D6572	D1FL40F4063	DIODE	1	
D6582	MA8051L	ZENER DIODE	1	
D6583	LNJ201LPQJA	LED	1	
D6584	MA111	DIODE	1	
D6585,86	MA8330M	ZENER DIODE	2	
D6611,12	M1FS4	DIODE	2	
D6615	D1FL40F4063	DIODE	1	
D6620-22	SF20LC30F10	DIODE	3	
D6624	SF20LC30F10	DIODE	1	
D6629	B0HBSM000031	DIODE	1	
D6635	MA8051L	ZENER DIODE	1	
D6636	MA111	DIODE	1	
D6637	D1FL40F4063	DIODE	1	
D6640	D1FL40F4063	DIODE	1	
D6641,42	M1FS4	DIODE	2	
D6645-47	D1FL40F4063	DIODE	3	
D6711,12	M1FS4	DIODE	2	
D6715	D1FL40F4063	DIODE	1	
D6720-22	SF20LC30F10	DIODE	3	
D6724	SF20LC30F10	DIODE	1	
D6729	B0HBSM000031	DIODE	1	
D6735	MA8051L	ZENER DIODE	1	
D6736	MA111	DIODE	1	
D6737	D1FL40F4063	DIODE	1	
D6740,41	D1FL40F4063	DIODE	2	
D6750,51	D1FL40F4063	DIODE	2	
D6752,53	M1FS4	DIODE	2	
D6754	D1FL40F4063	DIODE	1	
D6755	M1FS4	DIODE	1	

D6757	D1FL40F4063	DIODE	1	
D6758,59	MA111	DIODE	2	
D6762	MA111	DIODE	1	
D6763	MA8051L	ZENER DIODE	1	
D6764	MA111	DIODE	1	
D6765	LNJ201LPQJA	LED	1	
D6766,67	MA8330M	ZENER DIODE	2	
D6768	MA111	DIODE	1	
D6769	LNJ201LPQJA	LED	1	
D7201-04	MA152K	DIODE	4	
D7501	B0JCNE000004	DIODE	1	
D7502	MA2068A	ZENER DIODE	1	
D7504	B0JCNE000004	DIODE	1	
D7505	MA2120A	ZENER DIODE	1	
D7507	B0JCNE000004	DIODE	1	
D7508	MA2068A	ZENER DIODE	1	
D7510	B0ECKM000003	DIODE	1	
D7511	MA2068A	ZENER DIODE	1	
D7512	MA737	DIODE	1	
D7513	MA2051A	ZENER DIODE	1	
D7515	B0JCNE000004	DIODE	1	
D7537,38	MA111	DIODE	2	
D7539	MA3062H	ZENER DIODE	1	
D7540	MA3039H	ZENER DIODE	1	
D7541-45	MA111	DIODE	5	
D7546	MA152	DIODE	1	
D7547-50	MA111	DIODE	4	
D7581	MA111	DIODE	1	
D7582	MA3X78900L	ZENER DIODE	1	
D9705-13	MA3062M	ZENER DIODE	9	
D9715	MA3062M	ZENER DIODE	1	
D9716	MA111	DIODE	1	
D9719,20	MA3062M	ZENER DIODE	2	
D9723	MA3062M	ZENER DIODE	1	
D9724	MA111	DIODE	1	
D9727	MA152K	DIODE	1	
D9730	MA152K	DIODE	1	
D9769	MA152K	DIODE	1	
D9771	MA152K	DIODE	1	

D9952	M1FS4	DIODE	1	
D9953	MA152K	DIODE	1	
D9954	M1FS4	DIODE	1	
D9955	B0JCPD000010	DIODE	1	
DV3	K1KA03B00098	3P CONNECTOR	1	
DV7	K1KA40B00062	40P CONNECTOR	1	
F900-1,-2	EYF-52BC	FUSE HOLDER	2	
F901-1,-2	EYF-52BC	FUSE HOLDER	2	
F902-1,-2	EYF-52BC	FUSE HOLDER	2	
FL6001	TAX10088	EMI FILTER	1	
FL6002-04	ELKE103FA	NOISE FILTER	3	
FL6007-13	TLK20LFA473M	EMI FILTER	7	
FL7106	ELKE103FA	NOISE FILTER	1	
FL7207-09	ELKE103FA	NOISE FILTER	3	
G5	K1KA06B00117	6P CONNECTOR	1	
G7	K1KA15B00045	15P CONNECTOR	1	
G8	K1KA10B00126	10P CONNECTOR	1	
G10	K1KA06B00049	6P CONNECTOR	1	
IC401	MIP2E1DMY1TV	IC	1	
IC402	AN1431T	LINEAR IC	1	
IC403	AN7705F	LINEAR IC	1	
IC451	C0DABZG00001	IC	1	
IC550	UPC24M18AHF	LINEAR IC	1	
IC551	C5HABZZ00123	IC	1	
IC552	C5HABZZ00080	IC	1	
IC553,54	AN1431T	LINEAR IC	2	
IC555	C0DAAHG00007	IC	1	
IC557,58	AN1431T	LINEAR IC	2	
IC920	C0DACZH00002	IC	1	
IC921	B3PAA0000261	IC	1	⚠
IC970	AN1431M	LINEAR IC	1	
IC2301,02	C1BA00000309	IC	2	
IC2304	AN7709SP	IC	1	
IC2401	C1BB00000800	IC	1	

IC2402	NJM2904M	LINEAR IC	1	
IC5001	C3EBDC000046	IC	1	
IC5005	PST9128NR	IC (LOGIC)	1	
IC5006	C0FBBK000038	IC	1	
IC5007	BA15218FDX	IC	1	
IC5008	M52055FP	LINEAR IC	1	
IC5009,10	PQ07VZ012ZP	IC	2	
IC5011	CXA1315M	LINEAR IC	1	
IC6001	C0JBAA000244	IC	1	
IC6005	C0JBAB000408	IC	1	
IC6011	C0CBCBD00004	IC	1	
IC6012	TVRN178-1	IC	1	
IC6013	C1AB00001816	IC	1	
IC6014	C3ABQG000069	IC	1	
IC6015	C1AB00001815	IC	1	
IC6016	C0CBCBD00008	IC	1	
IC6017	C0CBCAD00015	IC	1	⚠
IC6018	PST9128NR	IC (LOGIC)	1	
IC6401-08	C0HBC0000005	IC	8	
IC6434	TLP181	PHOTO COUPLER	1	
IC6451	AN1431M	LINEAR IC	1	
IC6452,53	AN78L15M	LINEAR IC	2	
IC6454,55	AN78L05M	LINEAR IC	2	
IC6456	AN1431M	LINEAR IC	1	
IC6458	TLP181	PHOTO COUPLER	1	
IC6467	TLP181	PHOTO COUPLER	1	
IC6469	TLP181	PHOTO COUPLER	1	
IC6471,72	AN1431M	LINEAR IC	2	
IC6474	TLP181	PHOTO COUPLER	1	
IC6480	TLP181	PHOTO COUPLER	1	
IC6491	AN1431M	LINEAR IC	1	
IC6501,02	TC74HC14AF	IC	2	
IC6503-10	K7GBZEE00006	DIODE	8	
IC6511	C0ZBZ0000735	IC	1	
IC6512	AN78L05M	LINEAR IC	1	
IC6517	TLP181	PHOTO COUPLER	1	
IC6521	C0ZBZ0000735	IC	1	
IC6541,42	C0ZBZ0000735	IC	2	

IC6543	AN78L05M	LINEAR IC	1	
IC6581	NJM2903M	INTEGRATED CIRCUIT	1	
IC6601-03	C0ZBZ0000138	IC	3	
IC6604	AN1431M	LINEAR IC	1	
IC6605,06	C0JBAZ000005	IC	2	
IC6607	TC74HC08AF	IC	1	
IC6701-03	C0ZBZ0000138	IC	3	
IC6704	C0ZBZ0000735	IC	1	
IC6705	NJM2903M	INTEGRATED CIRCUIT	1	
IC6706	C0JBAZ000005	IC	1	
IC6711	AN1431M	LINEAR IC	1	
IC7101	C0JBAZ001604	IC	1	
IC7104-06	C0JBAZ001604	IC	3	
IC7201-04	C0JBAZ001604	IC	4	
IC7501-05	C0DAAZG00006	IC	5	
IC7581	C0DBAMA00015	IC	1	
IC9006,07	C0CBCBD00008	IC	2	
IC9009	C0FBAD000069	IC	1	
IC9023	74LVC244APWL	IC	1	
IC9151	MN845041-A	IC	1	
IC9152,53	C0CBCBD00008	IC	2	
IC9155	C3ABPJ000017	IC	1	
IC9157	TLC2933IPWL	INTEGRATED CIRCUIT	1	
IC9301	C1ZBZ0002358	IC	1	
IC9302	C0CBCBD00008	IC	1	
IC9303	C1ZBZ0002357	IC	1	
IC9453	PQ07VZ012ZP	IC	1	
IC9454	C3ABPJ000043	IC	1	
IC9455	MN84510-A	IC	1	
IC9456	TVRJ952-3	IC	1	
IC9459	C0JBAZ001992	IC	1	
IC9601	TC74ACT244F	INTEGRATED CIRCUIT	1	
IC9602	74LVC244APWL	IC	1	
IC9603,04	TC74ACT244F	INTEGRATED CIRCUIT	2	
IC9605	C1ZBZ0002377	IC	1	
IC9606	PST9128NR	IC (LOGIC)	1	
IC9701	MN102L230	IC	1	
IC9702	TVRN207-1	IC	1	
IC9703	TC74ACT244F	INTEGRATED CIRCUIT	1	

IC9704	C3HBHG000001	IC	1	
IC9705	TVRJ951-1	IC	1	
IC9706	74LVC244APWL	IC	1	
IC9707	C0JBAE000239	IC	1	
IC9708	C3EBGC000018	IC	1	
IC9709	C2BBGF000491	IC	1	
IC9710	M51957BFP	LINEAR IC	1	
IC9711	AHC2G66HDCTR	INTEGRATED CIRCUIT	1	
IC9951	C0DBAMH00006	IC	1	
IC9952	C0DBAFH00021	IC	1	
JG2	K1NA09E00043	9P CONNECTOR	1	
JG3	K1KA20A00180	20P CONNECTOR	1	
JK3709	K1FB315A0001	CONNECTOR	1	
JK3714	K4BK29A00006	AV TERMENAL	1	
JK5001	K1FA119E0001	CONNECTOR	1	
JS015,16	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS017,18	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS019-21	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS301,02	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
JS304	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS307-11	ERJ8GEY0R00	M 0 OHM, 1/8W	5	
JS2106,07	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS2303,04	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS2430	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
JS3705,06	ERJ8GEY0R00	M 0 OHM, 1/8W	2	
JS6004	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS6009	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS6601	ERD25V0T	M OHM, 1/10W	1	
JS6702	ERD25V0T	M OHM, 1/10W	1	
K5	K1KA06A00220	6P CONNECTOR	1	
K9	K1KA06A00220	6P CONNECTOR	1	
K12	K1KA08A00232	8P CONNECTOR	1	
K24	K1KA08A00232	8P CONNECTOR	1	
K34	K1KA03A00213	3P CONNECTOR	1	

L401	ELEXT100KA	PEAKING COIL	1	
L451	G4D4A0000048	SWITCHING TRANSFORMER	1	
L452	EXCELDR35C	BEAD CHOKE	1	
L554	TALFP15B221K	INDUCTION COIL	1	
L920	EXCELDR25C	BEAD CHOKE	1	
L921	EXCELSA24	BEAD CHOKE	1	
L922	EXCELDR35C	BEAD CHOKE	1	
L970	EXCELSA24	BEAD CHOKE	1	
L971	G0A100GA0013	CHOKE COIL	1	
L973	G0A100GA0013	CHOKE COIL	1	
L2301,02	G0A221ZA0038	CHOKE COIL	2	
L2303,04	EXCELDR35C	BEAD CHOKE	2	
L2306	ELJPA100KB	CHIP INDUCTOR	1	
L3778-85	TSK1040	FERRITE CORE	8	
L5001	EXCCL3225U1	EMI FILTER	1	
L5002	ELJPA2R2MF	CHIP INDUCTOR	1	
L5003-09	EXCCL4532U1	BEAD CHOKE	7	
L5022	J0HABB000004	LC FILTER	1	
L5024-30	J0HABB000004	LC FILTER	7	
L5031	EXCCL3225U1	EMI FILTER	1	
L5032,33	ELJPA2R2MF	CHIP INDUCTOR	2	
L5034	EXCCL3225U1	EMI FILTER	1	
L5037	ELJPA1R0MB	INDUCTION COIL	1	
L5038	EXCCL3225U1	EMI FILTER	1	
L5039	EXCCL4532U1	BEAD CHOKE	1	
L5040	EXCCL3225U1	EMI FILTER	1	
L5041	EXCCL4532U1	BEAD CHOKE	1	
L5042	EXCCL3225U1	EMI FILTER	1	
L5050-52	TSK1025	FERRITE CORE	3	
L6004-06	J0JHC0000035	CHIP INDUCTOR	3	
L6008	J0JHC0000035	CHIP INDUCTOR	1	
L6009	G1C8R2K00009	INDUCTOR COIL	1	
L6010-13	J0JHC0000035	CHIP INDUCTOR	4	
L6451	J0JJC0000021	CHIP INDUCTOR	1	
L6453	J0JJC0000021	CHIP INDUCTOR	1	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6472	G0ZZ00002183	PEAKING COIL	1	
L6602	G0ZZ00002183	PEAKING COIL	1	
L6604,05	G0ZZ00002183	PEAKING COIL	2	

L6611,12	ELC16BR82L	CHOKE COIL	2	⚠
L6615,16	ELC16BR82L	CHOKE COIL	2	⚠
L6618	J0JJC0000021	CHIP INDUCTOR	1	
L6620-28	G0ZZ00002183	PEAKING COIL	9	
L6634-38	G0ZZ00002183	PEAKING COIL	5	
L6644,45	G0ZZ00002183	PEAKING COIL	2	
L6647,48	J0JJC0000021	CHIP INDUCTOR	2	
L6702-04	G0ZZ00002183	PEAKING COIL	3	
L6705	G0C101K00023	PEAKING COIL	1	
L6711-14	ELC16BR82L	CHOKE COIL	4	⚠
L6717,18	J0JJC0000021	CHIP INDUCTOR	2	
L6719-23	G0ZZ00002183	PEAKING COIL	5	
L6726,27	G0ZZ00002183	PEAKING COIL	2	
L6736,37	G0ZZ00002183	PEAKING COIL	2	
L6744,45	G0ZZ00002183	PEAKING COIL	2	
L6747	J0JJC0000021	CHIP INDUCTOR	1	
L6750	G0ZZ00002183	PEAKING COIL	1	
L7111-13	J0JHC0000096	CHIP INDUCTOR	3	
L7214-17	J0JHC0000096	CHIP INDUCTOR	4	
L7501	G0C101K00023	PEAKING COIL	1	
L7502	G0A101ZA0038	CHOKE COIL	1	
L7503	TALL08N330KA	INDUCTION COIL	1	
L7504	G0C101K00023	PEAKING COIL	1	
L7505	G0A101ZA0038	CHOKE COIL	1	
L7506	TALL08N330KA	INDUCTION COIL	1	
L7507	G0C101K00023	PEAKING COIL	1	
L7508	G0A101ZA0038	CHOKE COIL	1	
L7509	G0A220GA0002	CHOKE COIL	1	
L7510	G0C101K00023	PEAKING COIL	1	
L7511	G0A101ZA0038	CHOKE COIL	1	
L7512	G0A220GA0002	CHOKE COIL	1	
L7513	G0C101K00023	PEAKING COIL	1	
L7514	G0A101ZA0038	CHOKE COIL	1	
L7515	G0A220GA0002	CHOKE COIL	1	
L7581	TALL08N330KA	INDUCTION COIL	1	
L7582	G1C101M00018	INDUCTION COIL	1	
L9452	ELJFA1R0KF	CHIP COIL	1	
L9459	ELKE103FA	NOISE FILTER	1	

L9701	ELKE103FA	NOISE FILTER	1	
L9951-54	ELKE103FA	NOISE FILTER	4	
L9955	G1C470M00012	INDUCTOR COIL	1	
L9956	G1C1R5Z00002	INDUCTION COIL	1	
LF904A	G0B702K00002	CHOKE COIL	1	⚠
LF909A	G0B702K00002	CHOKE COIL	1	⚠
LF911	G0B353G00001	CHOKE COIL	1	⚠
LF915A	G0B702K00002	CHOKE COIL	1	⚠
P2	K1KA06A00180	6P CONNECTOR	1	
P5	K1KA11A00073	11P CONNECTOR	1	
P7	TJS1A8800	4P CONNECTOR	1	
P9	K1KA02A00244	2P CONNECTOR	1	
P10	TJS1A8810	5P CONNECTOR	1	
P11	K1KA07A00096	7P CONNECTOR	1	
P12	K1KA05A00139	5P CONNECTOR	1	
P23	K1KA03A00213	3P CONNECTOR	1	
P25	TJS1A8840	8P CONNECTOR	1	
P27	TJS1A8850	9P CONNECTOR	1	
PA3	K1KA04A00195	4P CONNECTOR	1	
PA4	K1KA12A00176	12P CONNECTOR	1	
PA5	K1KA11A00073	11P CONNECTOR	1	
PA6	K1KA20A00180	20P CONNECTOR	1	
PA8	K1KA20A00180	20P CONNECTOR	1	
PA9	K1KA06A00220	6P CONNECTOR	1	
PA10	TJS3A9900	10P CONNECTOR	1	
PA12	K1KA07A00056	7P CONNECTOR	1	
PA18	TJS1A8840	8P CONNECTOR	1	
PA21	K1KA07A00056	7P CONNECTOR	1	
PA22	K1KA12A00176	12P CONNECTOR	1	
PA23	TJS3A9880	8P CONNECTOR	1	
PA24	K1KA07A00096	7P CONNECTOR	1	
PF1,F2	K1KA03A00181	3P CONNECTOR	2	
PF10	TJS118670	PHONO PIN	1	

Q300,01	2SC2412K	TRANSISTOR	2	
Q305	2SD601A	TRANSISTOR	1	
Q401-04	2SC3311A	TRANSISTOR	4	
Q405	B1CBGD000001	TRANSISTOR	1	
Q406	2SC3311A	TRANSISTOR	1	
Q451	B1DEGR000021	TRANSISTOR	1	
Q452	2SD2177R	TRANSISTOR	1	
Q453	2SB1434R	TRANSISTOR	1	
Q454	B1DEGR000021	TRANSISTOR	1	
Q455,56	2SC3311A	TRANSISTOR	2	
Q457	2SA1309A	TRANSISTOR	1	
Q552	B1DEGQ000019	FET	1	
Q553	2SB621A	TRANSISTOR	1	
Q554,55	2SC3311A	TRANSISTOR	2	
Q557,58	2SC3311A	TRANSISTOR	2	
Q650,51	2SC3311A	TRANSISTOR	2	
Q990	2SD13280TL	TRANSISTOR	1	
Q2301,02	2SD1266A	TRANSISTOR	2	
Q2303-06	2SD601A	TRANSISTOR	4	
Q2308-12	2SD601A	TRANSISTOR	5	
Q5001	B1MBACA00004	TRANSISTOR	1	
Q5002,03	2SD601A	TRANSISTOR	2	
Q5004-09	2SB709A	TRANSISTOR	6	
Q5011-13	2SD601A	TRANSISTOR	3	
Q5014	2SB709A	TRANSISTOR	1	
Q5015-19	2SD601A	TRANSISTOR	5	
Q6001	2SA207700L	TRANSISTOR	1	
Q6003	2SA207700L	TRANSISTOR	1	
Q6005,06	2SC584500L	TRANSISTOR	2	
Q6008	2SA207700L	TRANSISTOR	1	
Q6010	2SA207700L	TRANSISTOR	1	
Q6401	2SK620	FET	1	
Q6451	B1BBCJ000003	TRANSISTOR	1	
Q6452	2SB0709A	TRANSISTOR	1	
Q6454	2SD814A	TRANSISTOR	1	
Q6455	2SD601A	TRANSISTOR	1	
Q6461	B1BBCJ000003	TRANSISTOR	1	
Q6462	2SB0709A	TRANSISTOR	1	
Q6463	2SD601A	TRANSISTOR	1	

Q6471	B1BBCJ000003	TRANSISTOR	1	
Q6472	2SB0709A	TRANSISTOR	1	
Q6474	2SD814A	TRANSISTOR	1	
Q6475-77	2SD601A	TRANSISTOR	3	
Q6491	2SD1263A	TRANSISTOR	1	
Q6492	2SC1473A	TRANSISTOR	1	
Q6501-04	2SK620	FET	4	
Q6511,12	B1DFGL000005	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	
Q6521	B1DFES000001	TRANSISTOR	1	
Q6522-27	2SK2993	FET	6	
Q6530	2SB1073001TV	TRANSISTOR	1	
Q6541	2SB1073001TV	TRANSISTOR	1	
Q6542-47	2SK373100L	TRANSISTOR	6	
Q6550	2SC1473A	TRANSISTOR	1	
Q6551	2SD601A	TRANSISTOR	1	
Q6552	B1DFES000001	TRANSISTOR	1	
Q6553	2SB1073001TV	TRANSISTOR	1	
Q6554	2SD2185	TRANSISTOR	1	
Q6555	B1DFES000001	TRANSISTOR	1	
Q6581	2SD601A	TRANSISTOR	1	
Q6601,02	2SK3795000SB	TRANSISTOR	2	
Q6603,04	2SK620	FET	2	
Q6605,06	2SK3795000SB	TRANSISTOR	2	
Q6611	2SD2185	TRANSISTOR	1	
Q6612	2SB1073001TV	TRANSISTOR	1	
Q6613	2SD2185	TRANSISTOR	1	
Q6614	2SB1073001TV	TRANSISTOR	1	
Q6621	2SK3637000VE	TRANSISTOR	1	
Q6624	2SK3637000VE	TRANSISTOR	1	
Q6641,42	B1DFHM000002	TRANSISTOR	2	
Q6671	2SB940A	TRANSISTOR	1	
Q6672	2SC1473A	TRANSISTOR	1	
Q6673	2SD1263A	TRANSISTOR	1	
Q6701,02	2SK3795000SB	TRANSISTOR	2	
Q6705,06	2SK3795000SB	TRANSISTOR	2	
Q6711	2SD2185	TRANSISTOR	1	
Q6712	2SB1073001TV	TRANSISTOR	1	
Q6713	2SD2185	TRANSISTOR	1	

Q6714	2SB1073001TV	TRANSISTOR	1	
Q6721	2SK3637000VE	TRANSISTOR	1	
Q6724	2SK3637000VE	TRANSISTOR	1	
Q6725	2SK620	FET	1	
Q6741,42	B1DFHM000002	TRANSISTOR	2	
Q6745,46	2SK326800L	FET	2	
Q6751	2SD1263A	TRANSISTOR	1	
Q6752,53	2SC1473	TRANSISTOR	2	
Q6756	2SD601A	TRANSISTOR	1	
Q7201,02	2SB709A	TRANSISTOR	2	
Q7501	B1DHDD000012	TRANSISTOR	1	
Q7502	UN2214	TRANSISTOR	1	
Q7504	UN2214	TRANSISTOR	1	
Q7506	B1DHDD000012	TRANSISTOR	1	
Q7507,08	UN2214	TRANSISTOR	2	
Q7509	2SD601A	TRANSISTOR	1	
Q7510	UN2214	TRANSISTOR	1	
Q7541-43	2SB709A	TRANSISTOR	3	
Q7544	2SD601A	TRANSISTOR	1	
Q7581	UN5211	TRANSISTOR	1	
Q7582	B1ABPF000005	TRANSISTOR	1	
Q7583	UN2214	TRANSISTOR	1	
Q7584,85	2SD601A	TRANSISTOR	2	
Q7586	B1DHFG000002	TRANSISTOR	1	
Q9301	2SD601A	TRANSISTOR	1	
Q9400	2SD601A	TRANSISTOR	1	
Q9596-99	2SD601A	TRANSISTOR	4	
Q9601,02	2SD601A	TRANSISTOR	2	
Q9701	2SD601A	TRANSISTOR	1	
Q9702	2SB1440	TRANSISTOR	1	
Q9703,04	2SK620	FET	2	
Q9706	2SK620	FET	1	
Q9707	2SB709A	TRANSISTOR	1	
Q9708,09	2SD601A	TRANSISTOR	2	
Q9710	2SB709A	TRANSISTOR	1	
Q9714-16	2SD601A	TRANSISTOR	3	
Q9719	2SK620	FET	1	
R300	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	

R301	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R302	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R304	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R306	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R310	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R311	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R312	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R313	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R314	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R317	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R320	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R402	ERF10TK3R3	W 3.3 OHM, 10W	1	
R404	ERF10TK3R3	W 3.3 OHM, 10W	1	
R406	ERU5TAJ150	F 15 OHM, 5W	1	⚠
R407	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R408	ERJ6GEYJ6R8	M 6.8 OHM,J,1/10W	1	
R409	ERG1FJS104D	M 100KOHM, J, 1W	1	
R410	ERJ6GEYJ6R8	M 6.8 OHM,J,1/10W	1	
R411	ERDS1FJ101	C 100 OHM, J,1/2W	1	
R412	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R413	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R414	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R415	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R416	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R417	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R418	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R420-22	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R423	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R424,25	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R426,27	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R428	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R429-31	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R432	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R433-35	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R436	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R451	ERDS1FJ274	C 270KOHM, J,1/2W	1	
R452	ERDS1FJ224	C 220KOHM, J,1/2W	1	
R453	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	

R454,55	ERG3FJS333D	M 33KOHM, J, 3W	2	
R456	ERDS1FJ2R7	C 2.7 OHM, J,1/2W	1	
R457,58	ERF5EKR15	W0.15 OHM, 5W	2	
R459	ERJ6GEYJ270	M 27 OHM,J,1/10W	1	
R460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R461	ERJ6GEYF563	M 56KOHM,F,1/10W	1	
R462	ERG1FJS101D	M 100 OHM, J, 1W	1	
R463	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R464	ERDS1FJ103	C 10KOHM, J,1/2W	1	
R465	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R466	ERJ6ENF2703	M 270KOHM, 1/10W	1	
R467	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R468	ERDS1FJ103	C 10KOHM, J,1/2W	1	
R469	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R470	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R471	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R472-74	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R476	ERJ6ENF3601	M 3.6KOHM, 1/10W	1	
R477	ERJ6ENF4020	M 402 OHM, 1/10W	1	
R478-80	ERJ6ENF3303	M 330KOHM, 1/10W	3	
R481	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R482	ERJ6ENF4220	M 422 OHM, 1/10W	1	
R483	ERG2FJS104D	M 100KOHM, J, 2W	1	
R484	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R485	ERG1FJS393D	M 39KOHM, J, 3W	1	
R486	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R487	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R488	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R489	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R490	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R491,92	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R493	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R502,03	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R504	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R550	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R551	ERG2FJS104D	M 100KOHM, J, 2W	1	
R552	ER0S2CKF1053	M 105KOHM, F,1/4W	1	
R553	ERG2FJS104D	M 100KOHM, J, 2W	1	
R554	ER0S2CKF1053	M 105KOHM, F,1/4W	1	

R555	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
R556	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R557,58	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R560	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R561	ERJ6ENF1212	M12.1KOHM, 1/10W	1	
R563	ERG3FJS683D	M 68KOHM, J, 3W	1	
R564,65	ERJ6GEYJ681	M 680 OHM,J,1/10W	2	
R568	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R569	ERX2FJSR47D	M 0.47OHM, J, 2W	1	
R571	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R572	ERG3FJS683D	M 68KOHM, J, 3W	1	
R573	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R574	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R575	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R576	ERX2FJSR47D	M 0.47OHM, J, 2W	1	
R577,78	ERG3FJS683D	M 68KOHM, J, 3W	2	
R579,80	ERDS1FJ220	C 22 OHM, J,1/2W	2	
R581,82	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R583,84	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R585,86	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R587	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R588	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R589	ERJ6ENF4992	M49.9KOHM, 1/10W	1	
R590	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R591	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R592	ERG1FJS222D	M 2.2KOHM, J, 1W	1	
R593	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R594	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R595	ERDS1FJ471	C 470 OHM, J,1/2W	1	
R596	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R597,98	ERDS1FJ224	C 220KOHM, J,1/2W	2	
R599	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R600	ERDS1FJ224	C 220KOHM, J,1/2W	1	
R601	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R602	ERJ6ENF4642	M46.4KOHM, 1/10W	1	
R603,04	ERJ6ENF4992	M49.9KOHM, 1/10W	2	
R605	EVMEASA00B54	CONTROL 50KOHMB 0.3W	1	
R606	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R607	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	

R608	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R609	ERJ6ENF1212	M12.1KOHM, 1/10W	1	
R610	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R611	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R612	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R613	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R614	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R615,16	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R617	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R618	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R619	ERJ12YJ472	M 4.7KOHM,J, 1/2W	1	
R620	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R621	ERJ12YJ472	M 4.7KOHM,J, 1/2W	1	
R623	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R625,26	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R627	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R628	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R630	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R631	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R635	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R650	ERG1FJS222D	M 2.2KOHM, J, 1W	1	
R652	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R653	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R654	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R655	ERDS1FJ472	C 4.7KOHM, J,1/2W	1	
R656,57	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R901	ERC12ZGK105	S 1MOHM, K,1/2W	1	⚠
R904	ERF5ZXK1R8	W 1.8 OHM, 5W	1	
R922	ERDS2TJ224	C 220KOHM, J,1/4W	1	
R923	ERG2FJS100D	M 10 OHM, J, 2W	1	
R924	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R925	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R926	ERJ6ENF9311	M9.31KOHM, 1/10W	1	
R927	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R928	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R929	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R934	ERJ6ENF1302	M 13KOHM, 1/10W	1	
R935	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	

R940	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R970	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R971	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R972	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R973	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R974	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R975	ERJ6ENF2321	M2.32KOHM, 1/10W	1	
R976	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R990	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R992	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R993,94	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2301,02	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R2303,04	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2305,06	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2307,08	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2309,10	ERDS1FJ100	C 10 OHM, J,1/2W	2	
R2311-16	ERDS1FJ2R2	C 2.2 OHM, J,1/2W	6	
R2331,32	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2333,34	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2339	ERJ8GEYJ392	M 3.9KOHM, J,1/8W	1	
R2346,47	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R2348	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2368	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2371	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R2372	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2373	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2374	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2375	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2376	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2377	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2378	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2385	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	
R2386	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2387	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2389	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2390	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2391	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R2392	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R2393	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

R2394	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R2395	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	
R2396,97	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2398	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2399	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2401,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R2403,04	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R2405,06	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R2408	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R2409	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2412	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2415,16	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2419,20	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2423	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2427,28	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R2494	ERJ12YJ821	M 820 OHM,J, 1/2W	1	
R3701	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	
R3703	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R3704	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R3705	ERJ6GEYJ512	M 5.1KOHM,J,1/10W	1	
R3706	ERJ6GEYJ912	M 9.1KOHM,J,1/10W	1	
R3707	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3710	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3711	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3715,16	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3720,21	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R3723,24	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3725-28	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R3730	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3731,32	ERJ12YJ560	M 56 OHM,J, 1/2W	2	
R3733-36	ERJ8GEY0R00	M 0 OHM, 1/8W	4	
R3794-96	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R5001	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5004	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5005-07	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R5008	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5009-11	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R5013	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5014,15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	

R5016	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R5017	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R5018	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5019	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R5020	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R5021	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5022	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R5023	TAJAAH0680JV	M 68 OHM,J,1/16W	1	
R5024,25	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R5026	ERJ3EKF3900	M 390 0HM, 1/16W	1	
R5029	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5030	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R5031	ERJ6ENF1240	M 124OHM, 1/10W	1	
R5032	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5035	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R5036	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R5038	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R5039	EXB38V220J	RESISTOR ARRAY	1	
R5040	EXB38V330J	RESISTOR ARRAY	1	
R5041-43	ERJ3GEYJ330	M 33 OHM,J,1/16W	3	
R5048	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R5049	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5053-55	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R5062-64	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R5066-68	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R5069	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R5070	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R5071	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R5072	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R5073	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R5074	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R5075	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R5077,78	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R5082-84	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R5085-87	ERJ3GEYJ561	M 560 OHM,J,1/16W	3	
R5088-90	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R5091	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R5092-94	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R5097,98	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	

R5102,03	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R5104,05	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R5107	ERJ3GEYF333	M 33KOHM, 1/16W	1	
R5109	ERJ3GEYF333	M 33KOHM, 1/16W	1	
R5110	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R5111,12	ERJ3GEYF223	M 22KOHM, 1/16W	2	
R5113	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R5114,15	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R5116	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R5117	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R5118	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R5119-21	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	3	
R5122	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5123	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5124	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5125	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5126	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R5127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5128,29	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R5130	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R5132	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5133	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R5135	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R5136,37	ERJ6GEYJ680	M 68 OHM,J,1/10W	2	
R5138	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5139,40	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R5141	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5142	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5143,44	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R5145,46	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R5147,48	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R5151	TAJAAH0680JV	M 68 OHM,J,1/16W	1	
R5153-56	TAJAAH0680JV	M 68 OHM,J,1/16W	4	
R5157,58	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R5159	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R5161	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R5162	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R5163	ERJ6ENF2431	M2.43KOHM, 1/10W	1	
R5165,66	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	

R5169	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R5172,73	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R5176	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5177	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R5186,87	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R5188-95	ERJ3GEYJ3R9	M 3.9HM,J,1/16W	8	
R5196	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6006	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6008	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6009	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6043	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6056	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6073,74	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R6077	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6078	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6080	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6082	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6084	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6085,86	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R6087	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R6089	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R6094-96	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R6101	D1HG1038A002	NETWORK RESISTER	1	
R6123	D1HG1038A002	NETWORK RESISTER	1	
R6125	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6129	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6133	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6137	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6151	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6152-55	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R6157	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6159	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6160	D1HG2208A002	NETWORK RESISTER	1	
R6168	D1HG2208A002	NETWORK RESISTER	1	
R6176	EXBV8V220JV	NETWORK RESISTER	1	
R6180	D1HG2208A002	NETWORK RESISTER	1	
R6188	D1HG2208A002	NETWORK RESISTER	1	
R6196-98	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R6200	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

R6208	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6209	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6210,11	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R6212	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6213,14	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R6215	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6216,17	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R6218,19	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R6220	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6221	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6222-24	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R6225	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6227	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6228	D1HG4708A002	NETWORK RESISTER	1	
R6236	D1HG4708A002	NETWORK RESISTER	1	
R6244-47	TAJAAH0470JV	M 47 OHM,J,1/16W	4	
R6248,49	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R6250	D1HG1018A002	NETWORK RESISTER	1	
R6258	D1HG1018A002	NETWORK RESISTER	1	
R6264	D1HG1018A002	NETWORK RESISTER	1	
R6272	D1HG1018A002	NETWORK RESISTER	1	
R6280-85	TAJAAH0101JV	M 100 OHM,J,1/16W	6	
R6286-90	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R6291	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R6292	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6293	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6294	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R6295	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R6296	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6297	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6299	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R6300	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6301	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R6302	ERJ3EKF5101	M 5.1KOHM, 1/16W	1	
R6303	ERJ3GEYJ241	M 240 OHM,J,1/16W	1	
R6305,06	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6308	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6309,10	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R6312	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	

R6313	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6314	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6316	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6317-20	TAJAAH0101JV	M 100 OHM,J,1/16W	4	
R6321-24	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R6325	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R6336	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6337	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6347	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6348	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6401-08	ERJ6GEYJ221	M 220 OHM,J,1/10W	8	
R6409	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6410,11	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6412	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6413	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6420-23	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6424	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6425-28	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6429	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6431	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6433	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6441	ERJ6ENF7502	M 75KOHM, 1/10W	1	
R6442	ERJ6ENF6982	M69.8KOHM, 1/10W	1	
R6444	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R6445	ERJ6ENF2551	M2.55KOHM, 1/10W	1	
R6446	ERJ14YJ224	M 220KOHM, J,1/4W	1	
R6447	ERG2FJS223D	M 22KOHM, J, 2W	1	
R6448	ERG2FJS472D	M 82KOHM, J, 3W	1	
R6449,50	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6452	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6453	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6454	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6455	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6456	ERJ6ENF4533	M 453KOHM, 1/10W	1	
R6457,58	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R6459	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6461	ERG1FJS471D	M 470 OHM, J, 1W	1	
R6463	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	

R6464	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6465	ERX2FJS8R2D	M 8.2 OHM, J, 2W	1	
R6466	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6467	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6469	ERJ6GEYJ163	M 16KOHM,J,1/10W	1	
R6470	ERJ14YJ153	M 15KOHM, 1/2W	1	
R6471	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6472	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6473	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6474	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6475	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6476	ERJ6ENF3243	M 324KOHM, 1/10W	1	
R6478	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6480	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6483	ERJ14YJ622	M 62KOHM, J,1/4W	1	
R6484	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6487	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6488	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6489	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6492,93	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6495,96	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6498,99	ERX1FJS8R2D	M 8.2 OHM, J, 1W	2	
R6500	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6501	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6502	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6503-09	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	7	
R6510	ERX3FJS2R2D	M 2.2 OHM, J, 3W	1	
R6511	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6512	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6513	ERX3FJS2R2D	M 2.2 OHM, J, 3W	1	
R6514	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6515	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6516	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	

R6517	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6518	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6519	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6520	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6522	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6524	ERJ6ENF2001	M 2KOHM, 1/10W	1	
R6525	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6526	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6527	ERJ14YJ102	M 1KOHM, J,1/4W	1	
R6528	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6529	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6530-35	ERJ6GEYJ220	M 22 OHM,J,1/10W	6	
R6538	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6539	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6540	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6541	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6542-47	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	6	
R6550	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R6551	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6552,53	ERJ6ENF1003	M 100KOHM, 1/10W	2	
R6554	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6555	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6556	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6559	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6560,61	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6562	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6563	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R6565	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6566	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6567,68	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6571-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	8	
R6580	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6581	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R6582,83	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6584	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6585	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6586	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

R6587	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6588,89	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6590	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6591	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6592,93	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6594	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6595,96	ERJ6ENF5231	M5.23KOHM, 1/10W	2	
R6599,00	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6603	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6604	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6605-07	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6608,09	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6610	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6611-14	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	4	
R6615	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6616	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6617,18	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6619,20	ERJ6GEYJ240	M 24 OHM,J,1/10W	2	
R6621	ERJ6ENF1543	M 154KOHM, 1/10W	1	
R6623	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6624	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6625	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6626	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6627,28	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6629	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6636-39	ERJ12YJ1R0	M 1 OHM, J,1/2W	4	
R6641,42	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R6643,44	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6645,46	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6647,48	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R6649-54	ERJ6GEYJ680	M 68 OHM,J,1/10W	6	
R6655	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6656	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6658	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6659,60	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6661,62	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6663	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R6664	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R6665,66	ERJ6GEYJ680	M 68 OHM,J,1/10W	2	

R6667,68	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6669	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R6670	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R6671	ERG3FJS821D	M 820 OHM, J, 3W	1	
R6672	ERJ12YJ101	M 100 OHM,J, 1/2W	1	
R6673	ERG1SJ100P	M 10 OHM, J, 1W	1	
R6675	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R6676	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R6678,79	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R6680,81	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R6682-85	ERJ3GEYJ471	M 470 OHM,J,1/16W	4	
R6686-89	ERJ3GEYJ473	M 47KOHM,J,1/16W	4	
R6690,91	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R6692,93	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R6694,95	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R6697,98	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R6701	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6711-14	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	4	
R6719,20	ERJ6GEYJ240	M 24 OHM,J,1/10W	2	
R6723	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6724	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6725	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6726	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6727,28	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6736-39	ERJ12YJ1R0	M 1 OHM, J,1/2W	4	
R6741,42	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R6743,44	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6747,48	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R6755	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6756	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6759,60	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6761	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R6762-64	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6765	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6766-68	ERJ6GEYJ223	M 22KOHM,J,1/10W	3	
R6769,70	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6771	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6772	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6773	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	

R6777,78	ERX3FJSR22D	M 2.2 OHM, J, 3W	2	
R6779,80	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6781	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6782,83	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R6784	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6785,86	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6787	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6788	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6789	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6801-03	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R6804-06	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R6807-09	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R6810-12	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R6818,19	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6820	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6821	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6823	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6824	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6825	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6826	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6827	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7102,03	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7106,07	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7110,11	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7117	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7119	ERJ6ENF1651	M1.65KOHM, 1/10W	1	TH-42PD25U/P
R7120	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	TH-42PD25U/P
R7125	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7126-28	TAJAAH0470JV	M 47 OHM,J,1/16W	3	TH-42PD25U/P
R7126-28	TAJAAH0101JV	M 100 OHM,J,1/16W	3	TH-37PD25U/P
R7130	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7132	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7136-41	ERJ14YJ220	M 22 OHM, J,1/4W	6	
R7142-59	TAJAAH0470JV	M 47 OHM,J,1/16W	18	TH-42PD25U/P
R7142-59	TAJAAH0101JV	M 100 OHM,J,1/16W	18	TH-37PD25U/P
R7161	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7162,63	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	TH-42PD25U/P
R7162,63	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	TH-37PD25U/P
R7166,67	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	TH-42PD25U/P

R7166,67	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	TH-37PD25U/P
R7170,71	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	TH-42PD25U/P
R7170,71	TAJAAH0101JV	M 100 OHM,J,1/16W	2	TH-37PD25U/P
R7178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7187	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7188	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7189	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7192	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7202,03	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7206,07	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7210,11	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7214,15	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R7217	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7221-24	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7225	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7226-29	TAJAAH0470JV	M 47 OHM,J,1/16W	4	TH-42PD25U/P
R7226-29	TAJAAH0101JV	M 100 OHM,J,1/16W	4	TH-37PD25U/P
R7230	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7232	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7233-40	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7241-64	TAJAAH0470JV	M 47 OHM,J,1/16W	24	TH-42PD25U/P
R7241-64	TAJAAH0101JV	M 100 OHM,J,1/16W	24	TH-37PD25U/P
R7278	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7285	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7289,90	TAJAAH0101JV	M 100 OHM,J,1/16W	2	TH-42PD25U/P
R7289,90	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	TH-37PD25U/P
R7293	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	TH-42PD25U/P
R7293	TAJAAH0101JV	M 100 OHM,J,1/16W	1	TH-37PD25U/P
R7296	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	TH-42PD25U/P
R7296	TAJAAH0101JV	M 100 OHM,J,1/16W	1	TH-37PD25U/P
R7297	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7300	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7301	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R7304	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R7305	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7306	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7309,10	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7501	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R7502	ERJ6ENF1871	M1.87KOHM, 1/10W	1	

R7503	ERJ6ENF8060	M 806 OHM, 1/10W	1	
R7504	ERJ6ENF3921	M3.92KOHM, 1/10W	1	
R7505	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7506	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7507	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R7508	ERJ6ENF1871	M1.87KOHM, 1/10W	1	
R7509	ERJ6ENF8060	M 806 OHM, 1/10W	1	
R7510	ERJ6ENF1871	M1.87KOHM, 1/10W	1	
R7511	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R7512	ERJ6ENF6040	M 604 OHM, 1/10W	1	
R7514	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7516	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7519	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7520	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7522	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7524	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7525-27	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	3	
R7530	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7532	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7533	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7534	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7535	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7536	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7537,38	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7539	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7540	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7541	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7542	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7543	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7544	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7545,46	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R7547	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7548	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7549	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7550	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7553	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7559	ERJ6ENF8201	M 8.2KOHM, 1/10W	1	
R7579	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R7583	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	

R7584	ERJ6GEYJ512	M 5.1KOHM,J,1/10W	1	
R7585	ERJ6ENF8202	M 82KOHM, 1/10W	1	
R7586	ERJ6ENF1371	M1.37KOHM, 1/10W	1	
R7588	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7590	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7591	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R7595	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7597	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7598	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7599	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7603	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7606	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7607	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R9018-20	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9022-24	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9028	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9029	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9064	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9104,05	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9109,10	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9111,12	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R9113	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9114,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9118	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9122	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9127-29	EXB2HVR000	RESISTOR ARRAY	3	
R9130-32	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R9153,54	EXB2HVR000	RESISTOR ARRAY	2	
R9157	EXB2HVR000	RESISTOR ARRAY	1	
R9167,68	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9171,72	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9176	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9177	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9178,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9180	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9182	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9183	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9187	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

R9199	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9200	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9202	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9203-05	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9207,08	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9216	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9218	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9219	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9220,21	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9224	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9226	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9228	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9229,30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9231	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9232	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9234	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9236	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9240	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9244,45	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9247	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9302	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9303	EXB38V103J	RESISTOR ARRAY	1	
R9306	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9308	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9310	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9311	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9315	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9322	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9330	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9333	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9335	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9336	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9337	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9339	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9349	EXB38V470J	RESISTOR ARRAY	1	
R9352	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9353	EXB38V470J	RESISTOR ARRAY	1	
R9355	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9357	EXB38V470J	RESISTOR ARRAY	1	

R9362	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9365	EXB38V470J	RESISTOR ARRAY	1	
R9367	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9368	EXB38V470J	RESISTOR ARRAY	1	
R9371	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9373	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9376	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9380	EXB38V151J	RESISTOR ARRAY	1	
R9411	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9413	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9415	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9417	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9420	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9449	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9455	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9459	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9460-62	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9465,66	EXB2HVR000	RESISTOR ARRAY	2	
R9468	EXB2HVR000	RESISTOR ARRAY	1	
R9469	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9475	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9476	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9477,78	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9479	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9480,81	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9483	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9484,85	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9486,87	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9488,89	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9490,91	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9501	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9503	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9513-15	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9525,26	EXB38V470J	RESISTOR ARRAY	2	
R9530	EXB38V470J	RESISTOR ARRAY	1	
R9532	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9535	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9537	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9538	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	

R9540	EXB38V470J	RESISTOR ARRAY	1	
R9541	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9547	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9548	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9551	EXB38V470J	RESISTOR ARRAY	1	
R9553	EXB38V680J	RESISTOR ARRAY	1	
R9558	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9559	EXB38V470J	RESISTOR ARRAY	1	
R9560	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9561	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9562	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9564	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9570	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9577	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9579-81	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9585,86	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9592	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9593	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9594	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9595	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9596	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9597	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9598,99	EXB38VR000	RESISTOR ARRAY	2	
R9600-05	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9608,09	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9611-15	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9618	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9620,21	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9624	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9625	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9627,28	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9631-35	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9640,41	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9642	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9643	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9648	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9650-53	EXB38V103J	RESISTOR ARRAY	4	
R9654,55	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9670-72	ERJ3GEY0R00	M 0 OHM, 1/16W	3	

R9679	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9683	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9686-88	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9700	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9701	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9702	TAJAAH0680JV	M 68 OHM,J,1/16W	1	
R9703-08	TAJAAH0101JV	M 100 OHM,J,1/16W	6	
R9709	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9710-16	ERJ3GEYJ151	M 150 OHM,J,1/16W	7	
R9717,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9719-24	ERJ3GEYJ151	M 150 OHM,J,1/16W	6	
R9725	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9726	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9727	EXB38VR000	RESISTOR ARRAY	1	
R9728	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9730-32	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R9733	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9734	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9735	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9736	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9737	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9738,39	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9741	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9743-45	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9747	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9748	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9749	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9750	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9751	EXB38V103J	RESISTOR ARRAY	1	
R9752	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9754	EXB38V272J	RESISTOR ARRAY	1	
R9755,56	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9757	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9758	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9759	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9760	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9761	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9762	EXB38V103J	RESISTOR ARRAY	1	
R9763	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

R9765	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9766	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9767	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9768	EXB38V470J	RESISTOR ARRAY	1	
R9769	EXB38VR000	RESISTOR ARRAY	1	
R9770	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9771	EXB38VR000	RESISTOR ARRAY	1	
R9773	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9774-76	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9777	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9779	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9781	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9782	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9783,84	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9785,86	EXB38VR000	RESISTOR ARRAY	2	
R9787	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9788	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9789	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9790	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9791	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9794	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9795	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9798,99	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9800	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9803,04	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9805	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9806	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9809	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9810,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9814	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9816	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9817	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9818,19	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9820	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9823,24	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9825	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9826	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9827	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9829	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	

R9832	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9833	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9834,35	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9836	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9837	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9838	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9839,40	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9841,42	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9843,44	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9846,47	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9848	EXB38V103J	RESISTOR ARRAY	1	
R9849,50	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9851	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9852,53	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9855	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9856	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9857	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9858	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9859	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9860	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9861	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9864	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9867	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9868	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9869	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9871	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9873	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9874,75	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9876	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9878-80	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R9882,83	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9885	EXB38V103J	RESISTOR ARRAY	1	
R9886	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9887	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9889	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9890	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9893-96	TAJAAH0101JV	M 100 OHM,J,1/16W	4	
R9897	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

R9898	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9900	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9903-05	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9906	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9907	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9908	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9909	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9910	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9913	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R9914	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9916	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9917	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9918	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9919	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9920	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9921-23	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R9924	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9925	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9929,30	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9931	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9932	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9933	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9934	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9935,36	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9937	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9939	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9940	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9941	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9942	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9943	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9944	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9945,46	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9947	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9949	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9951,52	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R9954	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9956	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9957	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

R9959,60	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9961	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R9962	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9964	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9965	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9966	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9969	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9971	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9972	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9973	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9984-88	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9991	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9993,94	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9996	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9998	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
RL401	K6B2ADA00007	REALY	1	⚠
RL402,03	K6B1ADA00009	REALY	2	⚠
RL901	K6B1ADA00023	RELAY	1	⚠
RM300	PNA4601M04TV	REMOTE CONTROL RECEIVER	1	
RTL	TNP2AA144ACS	CIRCUIT BOARD DT	1	PAVCA SUPPLYED ⚠
RTL	TNPA2626AB	CIRCUIT BOARD SU	1	TH-37PD25U/P ⚠
RTL	TNPA2627AB	CIRCUIT BOARD SD	1	TH-37PD25U/P ⚠
RTL	TNPA2841AH	CIRCUIT BOARD P	1	⚠
RTL	TNPA2872	CIRCUIT BOARD SS2	1	TH-42PD25U/P ⚠
RTL	TNPA2873	CIRCUIT BOARD SS3	1	TH-42PD25U/P ⚠
RTL	TNPA2876	CIRCUIT BOARD SS4	1	TH-37PD25U/P ⚠
RTL	TNPA2877	CIRCUIT BOARD SS5	1	TH-37PD25U/P ⚠
RTL	TNPA2957AB	CIRCUIT BOARD SU	1	TH-42PD25U/P ⚠
RTL	TNPA2958AB	CIRCUIT BOARD SD	1	TH-42PD25U/P ⚠
RTL	TNPA3083	CIRCUIT BOARD C1	1	TH-42PD25U/P ⚠
RTL	TNPA3084	CIRCUIT BOARD C2	1	TH-42PD25U/P ⚠
RTL	TNPA3089	CIRCUIT BOARD C1	1	TH-37PD25U/P ⚠

RTL	TNPA3090	CIRCUIT BOARD C2	1	TH-37PD25U/P ⚠
RTL	TNPA3106	CIRCUIT BOARD SC	1	TH-42PD25U/P ⚠
RTL	TNPA3106AB	CIRCUIT BOARD SC	1	TH-37PD25U/P ⚠
RTL	TNPA3107	CIRCUIT BOARD SS	1	TH-42PD25U/P ⚠
RTL	TNPA3107AB	CIRCUIT BOARD SS	1	TH-37PD25U/P ⚠
RTL	TNPA3177	CIRCUIT BOARD DG	1	⚠
RTL	TNPA3178	CIRCUIT BOARD H	1	⚠
RTL	TNPA3179	CIRCUIT BOARD TB	1	⚠
RTL	TNPA3180	CIRCUIT BOARD JA	1	⚠
RTL	TXN/G1URSU	CIRCUIT BOARD G	1	⚠
RTL	TXN/K1URSU	CIRCUIT BOARD K	1	⚠
RTL	TXNDV1UHSU	CIRCUIT BOARD DV	1	⚠
RTL	TXNPA1URSU	CIRCUIT BOARD PA	1	⚠
RTL	TXNPF1URSU	CIRCUIT BOARD PF	1	⚠
RTL	TZTNP01TTSU	CIRCUIT BOARD D	1	⚠
S901	J0LT00000009	SWITCH	1	⚠
S3701-07	EVQ23405R	SWITCH	7	
SC2	K1KA06A00180	6P CONNECTOR	1	
SC20	K1KA20A00180	20P CONNECTOR	1	
SC23	K1KA03A00213	3P CONNECTOR	1	
SC41-44	K1KB40B00015	40P CONNECTOR	4	
SC45,46	K1KA10A00194	10P CONNECTOR	2	
SD1-D3	K1MN80B00004	80P CONNECTOR	3	
SD46	K1KA10B00209	10P CONNECTOR	1	
SN300	B3L000000017	IC	1	
SS11	K1KA07A00096	7P CONNECTOR	1	
SS12	K1KA05A00139	5P CONNECTOR	1	
SS23	K1KA11A00073	11P CONNECTOR	1	
SS34	K1KA03A00213	3P CONNECTOR	1	
SS40	K1KB07A00037	7P CONNECTOR	1	TH-42PD25U/P

SS40A	K1KB07A00037	7P CONNECTOR	1	TH-37PD25U/P
SS41-46	K1MN13B00020	13P CONNECTOR	6	TH-42PD25U/P
SS41A-6A	K1MN13B00020	13P CONNECTOR	6	TH-37PD25U/P
SS47	K1KB07A00037	7P CONNECTOR	1	TH-42PD25U/P
SS47A	K1KB07A00037	7P CONNECTOR	1	TH-37PD25U/P
SS48,49	K1KA07A00170	7P CONNECTOR	2	
SU1-U3	K1MN80B00004	80P CONNECTOR	3	
SU45	K1KA10B00209	10P CONNECTOR	1	
SW300	K0F122A00172	SWITCREMOTE CONTROLH	1	
T401	ETS25AD1H6AG	SWITCHING TRANS	1	⚠
T501	ETS49BP116AD	SWITCHING TRANS	1	⚠
T502	ETS42BV116AD	SWITCHING TRANS	1	⚠
T920	ETS29AK7J5AD	SWITCHING TRANS	1	⚠
T6451	G4D1A0000072	SWITCHING TRANS	1	
T6461	ETS13TB139AP	SWITCHING TRANS	1	
T6471	G4D1A0000072	SWITCHING TRANS	1	
TPP1	ERD25V0R00	C 0 OHM, 1/4W	1	
VR6443	EVMEASA00B24	CONTROL 20KOHMB 0.3W	1	
VR6477	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
VR6557	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
VR6774	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
X6001	H1A4905B0001	CRYSTAL	1	
X9302	H0J200500016	CRYSTAL	1	
X9701	H0J245500013	CRYSTAL	1	
X9702	H0J921400003	CRYSTAL	1	
X9703	H0J200500016	CRYSTAL	1	
ZA901	K4ZZ01000121	EARTH LUG	1	
ZA5001-03	K4CD01000002	TERMINAL	3	
ZA5101-05	TESA169	SHIELD CLIP	5	
ZA7002,03	K4ZZ01000121	EARTH LUG	2	
ZA7004	TJC6137	EARTH LUG	1	

ZA7005,06	K4ZZ01000121	EARTH LUG	2	
	TNPA3177	CIRCUIT BOARD DG	1	(RTL)
C001	EEEHB1A101P	C 100PF, J, 10V	1	
C002	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C003	EEEHB1A101P	C 100PF, J, 10V	1	
C004	EEEHB1H1R0R	C 1.0PF, J, 50V	1	
C005	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C006	EEEHB1C470P	C 47PF, J, 16V	1	
C007	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C008	EEEHB1C470P	C 47PF, J, 16V	1	
C009	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C011	ECJ3YB0J475M	C 0.047UF, K, 25V	1	
C012,13	ECJ1XC1H101J	C 100PF, J, 50V	2	
C014	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C015	TCUY0J685MBM	C 6.8UF, 6.3V	1	
C016	ECJ1XC1H101J	C 100PF, J, 50V	1	
C017	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C018	ECJ1XC1H101J	C 100PF, J, 50V	1	
C019	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C020	ECJ1XC1H220J	C 22PF, J, 50V	1	
C021	EEEHB1H1R0R	C 1.0PF, J, 50V	1	
C022	ECJ1XC1H101J	C 100PF, J, 50V	1	
C023	ECJ1VC1H270J	C 27PF, J, 50V	1	
C024	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C025	EEEHB1C470P	C 47PF, J, 16V	1	
C026	EEEHB1H1R0R	C 1.0PF, J, 50V	1	
C027	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C028	ECJ1XC1H101J	C 100PF, J, 50V	1	
C029	EEEHP0J470P	C 47PF, J,6.3V	1	
C030,31	ECJ1XC1H220J	C 22PF, J, 50V	2	
C032	EEEHP0J470P	C 47PF, J,6.3V	1	
C033	EEEHB1H1R0R	C 1.0PF, J, 50V	1	
C034	TCUY0J685MBM	C 6.8UF, 6.3V	1	
C035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C036	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C037	EEEHB0J101P	C 100PF, J, 6.3V	1	
C038	ECJ2XB1H682K	C 6800PF, K, 50V	1	

C039,40	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C041,42	ECJ1XC1H561J	C 560PF, J, 50V	2	
C043,44	ECJ1XC1H471J	C 470PF, J, 50V	2	
C047	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C049	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2251	EEEHB1A101P	C 100PF, J, 10V	1	
C2252,53	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C2255	EEEHB1A101P	C 100PF, J, 10V	1	
C3010,11	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3040-42	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C3801,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C3803	EEEHB0J101P	C 100PF, J, 6.3V	1	
C3804	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3805	EEEHB1C470P	C 47PF, J, 16V	1	
C3806,07	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C3808	EEEHB1C470P	C 47PF, J, 16V	1	
C3809	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3810	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C3811	TCUY1C225KBM	C 2.2UF, 16V	1	
C3812	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3813,14	ECJ1XC1H330J	C 33PF, J, 50V	2	
C3815	ECJ2XB1H563K	C 0.056UF, K, 50V	1	
C3816	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C4501	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4502	EEEHB1A330R	C 33PF, J, 10V	1	
C4503	ECJ1XC1H050C	C 5PF, C, 50V	1	
C4504,05	ECJ1XC1H470J	C 47PF, J, 50V	2	
C4506	ECJ1XC1H050C	C 5PF, C, 50V	1	
C4507,08	ECJ1XC1H220J	C 22PF, J, 50V	2	
C4509,10	ECJ1XC1H121J	C 120PF, J, 50V	2	
C4511	ECJ1XC1H220J	C 22PF, J, 50V	1	
C4512	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4513	ECJ1XC1H101J	C 100PF, J, 50V	1	
C4514	EEEHB1A330R	C 33PF, J, 10V	1	
C4516	EEEHP1E100P	C 10PF	1	
C4518	EEEHP1E100P	C 10PF	1	
C4519	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C4521	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

C4522	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4523	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4524,25	EEEHB0G101R	C 100PF, J, 4V	2	
C4526	ECJ1VB1H471K	C 470PF, K, 50V	1	
C4527,28	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4529	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4530-32	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C4533	EEEHB1C470P	C 47PF, J, 16V	1	
C4534	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4535,36	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C4537	EEEHB0G101R	C 100PF, J, 4V	1	
C4538	ECJ1VC1H080C	C 8PF, C, 50V	1	
C4539	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4540	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4541	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4542	EEEHB0G101R	C 100PF, J, 4V	1	
C4543-48	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C4549	EEEHB1A330R	C 33PF, J, 10V	1	
C4550	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4551	TCUY0J685MBM	C 6.8UF, 6.3V	1	
C4552	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4553-58	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C4559	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4560	EEEHB0G101R	C 100PF, J, 4V	1	
C4561	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4562	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4563	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4564	EEEHB0G101R	C 100PF, J, 4V	1	
C4565-79	ECJ1XF1C104Z	C 0.1UF, Z, 16V	15	
C4580	TCUY0J685MBM	C 6.8UF, 6.3V	1	
C4581,82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C4583	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4584-86	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C4587	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4588	EEEHB0G101R	C 100PF, J, 4V	1	
C4589	TCUY0J685MBM	C 6.8UF, 6.3V	1	
C4590	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4591-93	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C4594	ECJ1VF1C105Z	C 1UF, Z, 10V	1	

C4596-00	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C4601	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4602	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4603	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4604	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4606	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4607	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4608	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4609	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4611	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4612-14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C4615	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4616	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4617	ECJ1XC1H330J	C 33PF, J, 50V	1	
C4618	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4619	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4620	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4621	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4622	ECJ1XC1H680J	C 68PF, J, 50V	1	
C4623-32	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C4633-35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C4636	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4637,38	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C4639-41	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C4642	EEEHB0G101R	C 100PF, J, 4V	1	
C4643	EEEHP1E100P	C 10PF	1	
C4644	ECJ3XB1C105K	C 1UF, K, 16V	1	
C4645	ECJ1XC1H330J	C 33PF, J, 50V	1	
C4646	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4647	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C4648,49	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C4650	ECJ1XC1H680J	C 68PF, J, 50V	1	
C4651,52	ECJ1XC1H150J	C 15PF, J, 50V	2	
C4653	EEEHB0G101R	C 100PF, J, 4V	1	
C4654	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4655	ECJ1XB1C223K	C 0.022UF, K, 16V	1	
C4656	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4657	EEFCD0G560R	56UF,	1	
C4658	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

C4659	EEFCD0G560R	56UF,	1	
C4660	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4661	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4663	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4665-69	ECJ1XB0J105K	C 1UF, K, 16V	5	
C4670	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4671,72	ECJ1XC1H470J	C 47PF, J, 50V	2	
C4673	ECJ1XC1H330J	C 33PF, J, 50V	1	
C4674-77	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C4678,79	ECJ1XC1H220J	C 22PF, J, 50V	2	
C4680	ECJ1XC1H050C	C 5PF, C, 50V	1	
C4681,82	EEEHB1A330R	C 33PF, J, 10V	2	
C4683	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4684	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4685,86	ECJ1XC1H121J	C 120PF, J, 50V	2	
C4687	EEEHB1C100R	C 10PF, J, 16V	1	
C4691	ECJ1XC1H101J	C 100PF, J, 50V	1	
C4692	ECJ1VC1H270J	C 27PF, J, 50V	1	
C4693-96	ECJ1XB0J105K	C 1UF, K, 16V	4	
C4697	TCUY0J685MBM	C 6.8UF, 6.3V	1	
C4700	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4701	EEEHB1C470P	C 47PF, J, 16V	1	
C4702	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4703,04	EEEHB1A330R	C 33PF, J, 10V	2	
C4705	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4706	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4707	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4708	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4709	EEEHB0G101R	C 100PF, J, 4V	1	
C4710	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4711	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4712	EEEHB0G221P	C 220PF, J, 4V	1	
C4714	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4715	EEEHB0G221P	C 220PF, J, 4V	1	
C4717	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4718-28	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C4729,30	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C4731-33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C4734	ECJ1XC1H680J	C 68PF, J, 50V	1	

C4735	ECJ1XC1H330J	C 33PF, J, 50V	1	
C4736	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4737	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4738-42	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C4743	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4744-46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C4747	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4748	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4749	EEEHB0G101R	C 100PF, J, 4V	1	
C4750-55	ECJ1XF1C104Z	C 0.1UF, Z, 16V	6	
C4756	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4757	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4758,59	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C4760,61	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C4762,63	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C4764	ECJ1VB1H471K	C 470PF, K, 50V	1	
C4765-69	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C4770	ECJ1XB0J105K	C 1UF, K, 16V	1	
C4771-75	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C4776	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4777-84	ECJ1VF1A105Z	C 1UF, Z, 10V	8	
C4785	EEEHB0G101R	C 100PF, J, 4V	1	
C4786	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4787	EEEHB0G101R	C 100PF, J, 4V	1	
C4788	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4789-92	ECJ1VF1A105Z	C 1UF, Z, 10V	4	
C4799	EEEHB1C470P	C 47PF, J, 16V	1	
C4800,01	ECJ1VF1C105Z	C 1UF, Z, 10V	2	
C4802	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4803	EEEHB0G101R	C 100PF, J, 4V	1	
C4804	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4813	EEEHB1A330R	C 33PF, J, 10V	1	
C4814	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4817	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4818	EEEHB0G101R	C 100PF, J, 4V	1	
C4819	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4820	EEEHB1C470P	C 47PF, J, 16V	1	
C4821	ECJ3YB1C475K	C 0.047UF, K, 16V	1	
C4823	ECJ3YB1C475K	C 0.047UF, K, 16V	1	

C4825	ECJ3YB1C475K	C 0.047UF, K, 16V	1	
C4828	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C4829	EEEHB1C470P	C 47PF, J, 16V	1	
C4830	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C4831	EEEHB1C470P	C 47PF, J, 16V	1	
C4833,34	TCUY0J685MBM	C 6.8UF, 6.3V	2	
C4840	EEEHB0G101R	C 100PF, J, 4V	1	
C4841	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C4842	EEEHB0G101R	C 100PF, J, 4V	1	
C4843	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C4844	EEEHB1C470P	C 47PF, J, 16V	1	
C4845	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4846	EEEHB1C470P	C 47PF, J, 16V	1	
C4847	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8001	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C8002	EEEHP1E220P	C 22PF	1	
C8003	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C8004	EEEHP1E220P	C 22PF	1	
C8005	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C8006	EEEHP1E220P	C 22PF	1	
C8008	ECJ1VB1H471K	C 470PF, K, 50V	1	
C8010	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8011	EEEHB1C470P	C 47PF, J, 16V	1	
C8014	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8017,18	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C8020	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C8022	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C8023	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C8024	ECJ1VB1H471K	C 470PF, K, 50V	1	
C8025	EEEHB1C470P	C 47PF, J, 16V	1	
C8026	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8031	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8032	EEEHB1C470P	C 47PF, J, 16V	1	
C8034	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C8037	ECJ1XC1H101J	C 100PF, J, 50V	1	
C8039	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C8044	TCUY1C225KBM	C 2.2UF, 16V	1	
C8045	ECJ1XC1H330J	C 33PF, J, 50V	1	
C8046	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

C8047	EEEHP1E220P	C 22PF	1	
C8048	ECJ2XB1H682K	C 6800PF, K, 50V	1	
C8050	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8055	ECJ1XC1H101J	C 100PF, J, 50V	1	
C8201	EEEHB1C470P	C 47PF, J, 16V	1	
C8203	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8206-09	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C8210	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8211	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8212	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8213,14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C8215	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8216	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C8217-19	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C8220	EEEHB1C470P	C 47PF, J, 16V	1	
C8221-23	EEEHB1A471P	C 470PF, J, 10V	3	
C8301	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8302-04	ECJ3YB1A475K	C 0.047UF, K, 10V	3	
C8332	EEEHB1C470P	C 47PF, J, 16V	1	
C8334	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C8336	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8341	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8347	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8348	ECJ3YB1A475K	C 0.047UF, K, 10V	1	
C8354	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C8366	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
D001	MA3036H	ZENER DIODE	1	
D002	MA3091M	ZENER DIODE	1	
D2251,52	MA152K	DIODE	2	
D2254,55	MA152K	DIODE	2	
D3801,02	MA152K	DIODE	2	
D4502	MA704	DIODE	1	
D4504	MA152K	DIODE	1	
D8001-03	MA3140M	ZENER DIODE	3	
D8004,05	MA153	DIODE	2	
D8302	MA111	DIODE	1	
D8304	MA111	DIODE	1	

IC001	MN102HF75KBF	IC	1	
IC002	C3EBJC000037	IC	1	
IC003	PST9128NR	IC (LOGIC)	1	
IC004	C0CBCBD00004	IC	1	
IC005	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	
IC3003	CXA1315M	LINEAR IC	1	
IC3004	CXA1875AM	LINEAR IC	1	
IC3517	AHC2G66HDCTR	INTEGRATED CIRCUIT	1	
IC3699	LSUQ0061	IC	1	
IC3801	C2BBFE000138	IC	1	
IC3802	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	
IC3803	M51957BFP	LINEAR IC	1	
IC4501	C1AB00001702	IC	1	
IC4502	C1AB00001703	IC	1	
IC4503	C0CBCBD00006	IC	1	
IC4504	C3HBKZ000001	IC	1	
IC4505	PQ07VZ012ZP	IC	1	
IC4506	PST9128NR	IC (LOGIC)	1	
IC4507,08	C0CBCBD00006	IC	2	
IC4509	C0CBCAD00006	IC	1	
IC4510	C0JBAM000095	IC	1	
IC4511	C0CBCBD00006	IC	1	
IC4512	AN15935A-VF	IC	1	
IC4513	PQ07VZ012ZP	IC	1	
IC4514	C0CBCBD00006	IC	1	
IC4515	C0FBAF000040	IC	1	
IC4516	C0CBCAD00006	IC	1	
IC4517	C0CBCBD00006	IC	1	
IC4518	C3ABPJ000048	IC	1	
IC4519,20	TC7SH32F	IC	2	
IC4521	C0CBCBD00006	IC	1	
IC4522	C0CBCAD00006	IC	1	
IC4530	C0CBCBD00004	IC	1	
IC4810	PQ12SZ1T	IC	1	
IC8008	TC4W53FEL	IC	1	
IC8009	AHC2G66HDCTR	INTEGRATED CIRCUIT	1	
IC8030	MC14066BF	MOS IC (LOGIC)	1	
IC8031	CXA1315M	LINEAR IC	1	

IC8054	M52346SP	LINEAR IC	1	
IC8071	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	
IC8076	TC74HC14AF	IC	1	
IC8200	M52055FP	LINEAR IC	1	
IC8201	C1AB00001720	IC	1	
JS001	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS4024,25	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS4392-94	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS8093	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS8205	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
L3005	G1C100KA0008	INDUCTOR COIL	1	
L3801	G1C100KA0008	INDUCTOR COIL	1	
L4501	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
L4502	TALC168T1R5K	CHIP INDUCTOR COIL	1	
L4503,04	TALC168T5R6K	CHIP INDUCTOR COIL	2	
L4505	TALC168T3R3K	CHIP INDUCTOR COIL	1	
L4506,07	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
L4508	J0JGC0000021	CHIP INDUCTOR COIL	1	
L4509	G1C100KA0008	INDUCTOR COIL	1	
L4510	J0JGC0000021	CHIP INDUCTOR COIL	1	
L4511-14	J0JCC0000241	CHIP INDUCTOR	4	
L4515	J0JGC0000021	CHIP INDUCTOR COIL	1	
L4516,17	J0JCC0000241	CHIP INDUCTOR	2	
L4520,21	TALC168T5R6K	CHIP INDUCTOR COIL	2	
L4522	TALC168T4R7K	CHIP INDUCTOR COIL	1	
L4524	J0JGC0000021	CHIP INDUCTOR COIL	1	
L4525	G1C100KA0008	INDUCTOR COIL	1	
L4526,27	J0JCC0000241	CHIP INDUCTOR	2	
L4528,29	J0JGC0000021	CHIP INDUCTOR COIL	2	
L4530,31	J0JCC0000241	CHIP INDUCTOR	2	
L4532	J0JGC0000021	CHIP INDUCTOR COIL	1	
L4556	J0JGC0000021	CHIP INDUCTOR COIL	1	
L4558-61	J0JHC0000035	CHIP INDUCTOR	4	
L4812	G1C100KA0008	INDUCTOR COIL	1	
L8002	G1C100KA0008	INDUCTOR COIL	1	
L8004	G1C100KA0008	INDUCTOR COIL	1	
L8200-04	EXCCL3225U1	EMI FILTER	5	

LC4304,05	TLK212T256AL	EMI FILTER	2	
LC4308,09	TLK212T256AL	EMI FILTER	2	
LC4311	TLK212T256AL	EMI FILTER	1	
LC4313-15	TLK212T256AL	EMI FILTER	3	
LC4317,18	TLK212T256AL	EMI FILTER	2	
LC4322	TLK212T256AL	EMI FILTER	1	
LC4324-27	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
LC4329	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
LC4330	TLK212T256AL	EMI FILTER	1	
LC4333	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
LC4334	TLK212T256AL	EMI FILTER	1	
LC4335	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
LC4336-40	TLK212T256AL	EMI FILTER	5	
LC4344,45	TLK212T256AL	EMI FILTER	2	
LC4347-51	TLK212T256AL	EMI FILTER	5	
LC4352	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
LC4353	TLK212T256AL	EMI FILTER	1	
LC4355	TLK212T256AL	EMI FILTER	1	
LC4357-63	TLK212T256AL	EMI FILTER	7	
LC4365-72	TLK212T256AL	EMI FILTER	8	
LC4380	TLK212T256AL	EMI FILTER	1	
LC4381	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
LC4383	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
LC4384,85	TLK212T256AL	EMI FILTER	2	
LC4387,88	TLK212T256AL	EMI FILTER	2	
LC4391	TLK212T256AL	EMI FILTER	1	
LC4393	TLK212T256AL	EMI FILTER	1	
LC4395	TLK212T256AL	EMI FILTER	1	
LC4400	TLK212T256AL	EMI FILTER	1	
LC4402-07	TLK212T256AL	EMI FILTER	6	
LC4411	TLK212T256AL	EMI FILTER	1	
LC4413,14	TLK212T256AL	EMI FILTER	2	
LC4431	ELKE103FA	NOISE FILTER	1	
LC4433-36	ELKE103FA	NOISE FILTER	4	
LC4523	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
LC8001	G1C100KA0008	INDUCTOR COIL	1	
LC8003	G1C100KA0008	INDUCTOR COIL	1	
LC8004-06	J0HABB000004	LC FILTER	3	

LC8200,01	TLK212T256AL	EMI FILTER	2	
LC8206	TLK212T256AL	EMI FILTER	1	
Q001	2SD1819A0L	TRANSISTOR	1	
Q004,05	2SB1218A0L	TRANSISTOR	2	
Q006-09	2SD1819A0L	TRANSISTOR	4	
Q020	2SD1819A0L	TRANSISTOR	1	
Q023-27	2SD1819A0L	TRANSISTOR	5	
Q029,30	2SD1819A0L	TRANSISTOR	2	
Q2251,52	2SB1218A0L	TRANSISTOR	2	
Q2253	2SD1819A0L	TRANSISTOR	1	
Q2254,55	2SB1218A0L	TRANSISTOR	2	
Q2258	2SD1819A0L	TRANSISTOR	1	
Q3801	2SB1218A0L	TRANSISTOR	1	
Q3802,03	2SD1819A0L	TRANSISTOR	2	
Q3804	2SB1218A0L	TRANSISTOR	1	
Q4501-03	2SD1819A0L	TRANSISTOR	3	
Q4504-06	2SB1218ARL	TRANSISTOR	3	
Q4507	2SD1819A0L	TRANSISTOR	1	
Q4508	2SB1218ARL	TRANSISTOR	1	
Q4509	2SB1218A0L	TRANSISTOR	1	
Q4510	2SD1819A0L	TRANSISTOR	1	
Q4511-13	2SD1030	TRANSISTOR	3	
Q4521	2SB1218ARL	TRANSISTOR	1	
Q4522-24	2SD1819A0L	TRANSISTOR	3	
Q4525-27	2SB1218ARL	TRANSISTOR	3	
Q4528	2SD1819A0L	TRANSISTOR	1	
Q4529	2SB1218ARL	TRANSISTOR	1	
Q4530	2SD1030	TRANSISTOR	1	
Q4531	2SB1218ARL	TRANSISTOR	1	
Q4532,33	2SD1030	TRANSISTOR	2	
Q4534-36	2SB1218ARL	TRANSISTOR	3	
Q4537-39	XN6501	TRANSISTOR	3	
Q4553-55	2SB1218ARL	TRANSISTOR	3	
Q4556-60	2SD1819A0L	TRANSISTOR	5	
Q8011	2SD1819A0L	TRANSISTOR	1	
Q8012	2SB1218A0L	TRANSISTOR	1	
Q8013	2SD1819A0L	TRANSISTOR	1	
Q8014	2SB1218A0L	TRANSISTOR	1	

Q8015	2SD1819A0L	TRANSISTOR	1	
R001	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R003	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R004	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R005	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R006	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R007	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R008,09	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R011	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R012,13	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R015	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R016	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R018	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R019,20	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R021,22	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R023	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R025	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R026	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R027	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R028	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R030	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R032	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R037	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R038	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R039	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R040	ERJ3EKF1000	M 100 OHM, 1/16W	1	
R041	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R043	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R044	ERJ3EKF1000	M 100 OHM, 1/16W	1	
R045	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R046	ERJ3EKF1000	M 100 OHM, 1/16W	1	
R048	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R049	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R050	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R051	ERJ3EKF9100	M 910 OHM, 1/16W	1	
R052	ERJ3GEYF5100	M 510 OHM, 1/16W	1	
R054	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R055	ERJ3EKF6800	M 680 OHM, 1/16W	1	

R057	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R058	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R059	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R060	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R062,63	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R065	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R066	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R067	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R068	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R069	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R070	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R071	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R072	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R073	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R074	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R075	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R077	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R080,81	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R082	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R083	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R084	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R085	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R087	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R088	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R089,90	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R092	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R093,94	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R095,96	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R097,98	ERJ3GEYJ241	M 240 OHM,J,1/16W	2	
R099	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R100	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R101	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R102	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R103,04	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R107	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R120	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R121	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R122	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R123	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	

R130	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R132	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R137	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R139,40	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R141	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R142	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R143	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R148	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R149	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R152	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R158	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R159-62	ERJ3GEYJ560	M 56 OHM,J,1/16W	4	
R163	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R164	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R165,66	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	2	
R167	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R168	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R171	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R462	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2251,52	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R2254	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2257	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R2258	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2259	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R2260	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2261	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2265	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3026	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3028	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3032,33	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3034-36	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3039-41	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3042,43	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3047	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3082	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3140,41	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R3142	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3254	ERJ3GEYF472	M 4.7KOHM, 1/16W	1	

R3257	ERJ3GEYF152	M 1.5KOHM, 1/16W	1	
R3801	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3802	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3803	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R3804	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
R3805	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R3806	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3809	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3810,11	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3812,13	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3814	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3815	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3816-20	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R3821	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3822	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3823	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3824,25	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3826	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3827	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3828	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3829,30	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3831,32	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3834,35	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3836	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3837	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R4501-03	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R4504	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4505	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4506	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4507	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4508	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4509	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4510	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R4511,12	ERJ3EKF2200	M 220 OHM, 1/16W	2	
R4513,14	ERJ3EKF3300	M 330 OHM, 1/16W	2	
R4515,16	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4517,18	ERJ3EKF2401	M 2.4KOHM, 1/16W	2	
R4519,20	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R4521	ERJ3EKF2200	M 220 OHM, 1/16W	1	

R4522	ERJ3EKF7500	M 750 OHM, 1/16W	1	
R4523	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4524-26	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R4527	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R4529	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4530	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4531,32	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R4534	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R4535	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R4536	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4537,38	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R4539	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4540	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4542	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4543	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4544-46	EXB38VR000	RESISTOR ARRAY	3	
R4547	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R4548,49	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R4550	ERJ6ENF1371	M1.37KOHM, 1/10W	1	
R4551	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4552	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R4553	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4554-56	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R4557,58	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R4559-61	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R4562-64	ERJ3EKF1500	M 150 OHM, 1/16W	3	
R4565,66	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R4567,68	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R4571	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R4573,74	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4575-77	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	
R4578,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R4580	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R4581,82	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	
R4583	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R4584	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4585	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4586	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R4587	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	

R4588	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4589	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4590	ERJ3EKF3301	M 3.3KOHM, 1/16W	1	
R4591-94	ERJ3EKF2701	M 2.7KOHM, 1/16W	4	
R4595	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4596	ERJ3EKF1502	M 15KOHM, 1/16W	1	
R4597	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R4598-00	ERJ3EKF75R0	M 0.75HM, 1/16W	3	
R4601	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R4602	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4603	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4604	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4605	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R4606	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R4607	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R4609	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R4610	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4611	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R4612,13	ERJ3EKF1001	M 1KOHM, 1/16W	2	
R4614,15	ERJ3EKF1401	M 1.4KOHM, 1/16W	2	
R4616-18	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R4620	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R4622,23	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R4627,28	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R4632,33	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R4636	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R4637	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R4638-40	ERJ3EKF1002	M 10KOHM, 1/16W	3	
R4641	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4642	ERJ3EKF3302	M 33KOHM, 1/16W	1	
R4643,44	ERJ3EKF1002	M 10KOHM, 1/16W	2	
R4645	ERJ3EKF3302	M 33KOHM, 1/16W	1	
R4646	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4647,48	ERJ3EKF3302	M 33KOHM, 1/16W	2	
R4650,51	ERJ3EKF3302	M 33KOHM, 1/16W	2	
R4652	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R4653-55	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R4656	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4657	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	

R4658	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4659	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4660	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4661	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4662,63	ERJ3EKF2200	M 220 OHM, 1/16W	2	
R4664	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R4667,68	ERJ3EKF3300	M 330 OHM, 1/16W	2	
R4669	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4670	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R4672	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R4673	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4674,75	ERJ3EKF2401	M 2.4KOHM, 1/16W	2	
R4677,78	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R4679	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R4680	ERJ3EKF7500	M 750 OHM, 1/16W	1	
R4681	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4682	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4683	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4685	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4686	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R4687	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4688	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4689	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4690	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4692	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4693	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R4694	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R4695,96	ERJ6ENF1501	M 1.5KOHM, 1/10W	2	
R4697,98	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R4699	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R4700	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R4701	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R4702	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R4703	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R4704	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4705	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R4706-10	ERJ3EKF33R0	M 33 OHM, 1/16W	5	
R4711	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R4712-14	ERJ3EKF1500	M 150 OHM, 1/16W	3	

R4715	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4716	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R4717-20	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R4722,23	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R4724	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R4725	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R4726	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4727-34	EXB38V820J	RESISTOR ARRAY	8	
R4735-37	ERJ3EKF1200	M 120 OHM, 1/16W	3	
R4738,39	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R4740-42	ERJ3EKF8200	M 820 OHM, 1/16W	3	
R4743-45	ERJ3EKF4700	M 470 OHM, 1/16W	3	
R4746-51	ERJ3EKF1000	M 100 OHM, 1/16W	6	
R4752-54	ERJ3EKF4700	M 470 OHM, 1/16W	3	
R4755,56	ERJ3EKF1000	M 100 OHM, 1/16W	2	
R4757,58	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R4775	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R4776-78	ERJ3GEYJ121	M 120 OHM,J,1/16W	3	
R4779	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4780	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R4781	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4782	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R4783	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4784	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R4788-90	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R4815	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R4816	ERJ6ENF1371	M1.37KOHM, 1/10W	1	
R4817	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R4819	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4820-23	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R4824,25	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R4826,27	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R4831-33	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R4834	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4905-07	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R8001-03	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R8004-06	ERJ6GEYJ220	M 22 OHM,J,1/10W	3	
R8008	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8014,15	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

R8020	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R8022	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8024	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8027,28	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R8030	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R8032	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R8034	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R8038	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R8040	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R8042	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R8044	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8046	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8049	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8051	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8055-58	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	4	
R8059-62	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	4	
R8065	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R8066,67	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R8070,71	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R8073	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8074	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R8075	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8077	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R8078,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R8090	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8094	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8098,99	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R8101	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R8102	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R8103	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R8104	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8105	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R8106	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R8108-11	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	
R8112,13	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R8114	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R8115-17	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	3	
R8210-12	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R8213-15	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	

R8216,17	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R8218	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R8222	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8223	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R8224	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R8227	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8228-30	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R8231,32	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R8234	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R8236	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R8239,40	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R8250	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R8251	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R8253-55	ERJ6GEYJ105	M 1MOHM,J,1/10W	3	
R8301-03	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R8306-08	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R8309	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R8311-14	ERJ3GEYJ223	M 22KOHM,J,1/16W	4	
R8320	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R8371	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R8405	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8410	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R8411	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R8505	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
T601,02	TSK1025	FERRITE CORE	2	
T8201-03	TSK1025	FERRITE CORE	3	
X001	TSSA104	CRYSTAL	1	
X3801	H0J921400003	CRYSTAL	1	
X4501	H0J202500002	CRYSTAL	1	
		CONNECTOR		
	TJS3A9880	8P CONNECTOR	1	
	TJS3A9890	9P CONNECTOR	1	
	K1KA60A00083	60P CONNECTOR	1	
	K1KA68B00029	68P CONNECTOR	1	
	K1KA09A00126	9P CONNECTOR	1	
	TJSF31010	10P CONNECTOR	1	

	K1KA20A00180	20P CONNECTOR	1	
	K1KA20B00103	20P CONNECTOR	1	
	K1KA21B00005	21P CONNECTOR	1	
	K1KA30A00106	30P CONNECTOR	1	
	K1KA30B00054	30P CONNECTOR	1	
	K1KA40B00062	40P CONNECTOR	1	
	TNPA3178	CIRCUIT BOARD H	1	(RTL)
C3031	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3033	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3035	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3037	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3043	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3045	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3049	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3051	ECJ2XB1H152K	C 1500PF, K, 50V	1	
C3059	ECA1AM102B	E 1000UF, 10V	1	
C4201	EEEHP1C100R	C 10PF, J, 16V	1	
C4203	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C4204	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4205	ECJ1XB1C223K	C 0.022UF, K, 16V	1	
C4206	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4207	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C4208	ECJ1VB1H153K	C 0.15UF, K, 50V	1	
C4209	ECJ1XB1C223K	C 0.022UF, K, 16V	1	
C4210	ECJ1VB1C683K	C 0.068UF, K, 16V	1	
C4211	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4212	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C4213	ECJ1VB1C333K	C 0.033UF, K, 16V	1	
C4214	EEEHB1E4R7R	C 4.7PF, J, 25V	1	
C4215	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4216	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4217	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4218,19	ECJ1VF1C105Z	C 1UF, Z, 10V	2	
C4224	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C4225	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4226	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4227	ECJ1VF1C105Z	C 1UF, Z, 10V	1	

C4228	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C4229	ECJ1VB1C333K	C 0.033UF, K, 16V	1	
C4230	EEEHB1E4R7R	C 4.7PF, J, 25V	1	
C4231,32	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4233-35	ECJ1VF1C105Z	C 1UF, Z, 10V	3	
C4236	ECJ1VB1H153K	C 0.15UF, K, 50V	1	
C4237	ECJ1XB1C223K	C 0.022UF, K, 16V	1	
C4238	ECJ1VB1C683K	C 0.068UF, K, 16V	1	
C4239	EEEHB1C101P	C 100PF, J, 16V	1	
C4240	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C4241,42	EEEHB1C101P	C 100PF, J, 16V	2	
C4243	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C4246	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4247	ECJ1XB1C223K	C 0.022UF, K, 16V	1	
C4248	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4249	EEEHP1C100R	C 10PF, J, 16V	1	
C4301-11	ECJ1VF1C105Z	C 1UF, Z, 10V	11	
C4312	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C4313	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4315	EEEHB1C470P	C 47PF, J, 16V	1	
C4316	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4317	EEEHB1C470P	C 47PF, J, 16V	1	
C4318-29	ECJ1VF1C105Z	C 1UF, Z, 10V	12	
C4330,31	ECJ1XB1H102K	C 1000UF, Z, 50V	2	
C4332	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C4333	EEEHB0J101P	C 100PF, J, 6.3V	1	
C4334	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4335-40	ECJ1VF1C105Z	C 1UF, Z, 10V	6	
C4341	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C4342	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4343	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C4344,45	ECJ1VF1C105Z	C 1UF, Z, 10V	2	
C4347	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4349,50	ECJ1VF1C105Z	C 1UF, Z, 10V	2	
C4351	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4352,53	ECJ1VF1C105Z	C 1UF, Z, 10V	2	
C4354,55	ECJ1XB1H102K	C 1000UF, Z, 50V	2	
C4356,57	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C4358	ECJ2XB1H682K	C 6800PF, K, 50V	1	

C4359	EEEHB1C101P	C 100PF, J, 16V	1	
C4360	EEEHB1C100R	C 10PF, J, 16V	1	
C4361	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C4362	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4363	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C4364,65	ECJ1VF1C105Z	C 1UF, Z, 10V	2	
C4367,68	ECJ1VF1C105Z	C 1UF, Z, 10V	2	
C4369	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C4370	ECJ1VF1C105Z	C 1UF, Z, 10V	1	
C4374-77	ECJ1VF1C105Z	C 1UF, Z, 10V	4	
C4401	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C4403	ECJ3YB1A106M	C 10UF, M,6.3V	1	
C4860	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C4861	EEEHB1C470P	C 47PF, J, 16V	1	
D3001-16	MA8110M	ZENER DIODE	16	
D3018-26	MA8110M	ZENER DIODE	9	
D3030-48	MA8110M	ZENER DIODE	19	
D4102-05	MA8110M	ZENER DIODE	4	
IC4201	C1BB00000510	IC	1	
IC4202	TC74HC4066AF	MOS IC (CMOS S/LOGIC)	1	
IC4203	C1BB00000772	IC	1	
IC4301	CXA2079Q	LINEAR IC	1	
IC4302	AN15852A	IC	1	
JK3001	K1U824A00002	CONNECTOR	1	
JK3002	K2HA306A0024	JACK	1	
JK3003,04	K2HA510A0002	JACK	2	
JK4001	K2HA204A0041	JACK	1	
L4201	G1C100KA0008	INDUCTOR COIL	1	
L4301,02	G1C100KA0008	INDUCTOR COIL	2	
LC4426-28	TLK212T256AL	EMI FILTER	3	
Q4201-08	2SD1819A0L	TRANSISTOR	8	
Q4303	2SB1218A0L	TRANSISTOR	1	
Q4514-16	2SD1819A0L	TRANSISTOR	3	

Q4517-19	2SB1218A0L	TRANSISTOR	3	
Q4600,01	2SD1819A0L	TRANSISTOR	2	
R3001,02	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3003,04	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R3005	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3006	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3007	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3008-13	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3014	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3015,16	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3017-19	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3020	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3021,22	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R4119,20	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R4201	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4202	ERJ3GEYJ913	M 91KOHM,J,1/16W	1	
R4203	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4204	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4206	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R4207	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4208	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4209	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4210,11	ERJ3GEYJ913	M 91KOHM,J,1/16W	2	
R4214	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4216	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4217,18	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R4219	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4222	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4223	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R4225	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R4229	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4230	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4233	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4234	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4235,36	ERJ3GEYJ913	M 91KOHM,J,1/16W	2	
R4237	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4238	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R4239	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	

R4240	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R4241	ERJ3GEYJ913	M 91KOHM,J,1/16W	1	
R4242	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R4243	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R4244	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4245	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4246	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R4247,48	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4249,50	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R4251,52	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4259,60	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R4305-15	ERJ3GEYJ221	M 220 OHM,J,1/16W	11	
R4316	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R4317	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4318	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R4319,20	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R4322-27	ERJ3GEYJ221	M 220 OHM,J,1/16W	6	
R4328,29	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R4330-32	ERJ3GEYJ820	M 82 OHM,J,1/16W	3	
R4336	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R4340,41	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R4342,43	ERJ3EKF1501	M 1.5KOHM, 1/16W	2	
R4344-46	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R4349,50	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R4351	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4353	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4354	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4355	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R4356	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4357	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R4358-62	ERJ3GEYJ102	M 1KOHM,J,1/16W	5	
R4364	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4365	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4367	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4368	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4369	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R4370	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4371,72	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R4373-75	ERJ3GEY0R00	M 0 OHM, 1/16W	3	

R4376-78	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R4380	ERJ6ENF68R0	M 68 OHM, 1/10W	1	
R4381-84	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R4385-89	ERJ3GEYJ102	M 1KOHM,J,1/16W	5	
R4400	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R4403-06	ERJ3EKF1501	M 1.5KOHM, 1/16W	4	
R4836-38	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R4839-41	ERJ3GEYJ561	M 560 OHM,J,1/16W	3	
R4842-44	ERJ3EKF68R0	M 68 OHM,J,1/16W	3	
R4845-47	ERJ3EKF2000	M 200 OHM, 1/16W	3	
R4848-50	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R4851-53	ERJ3GEYJ561	M 560 OHM,J,1/16W	3	
R4900	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R4901	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4902	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R4903	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4904	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R4906	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4907	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R4909	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
T3001,02	TSKX027	CHOKE COIL	2	
T3003,04	TSKX026	CHOKE COIL	2	
T3005	G0B600G00001	CHOKE COIL	1	
		CONNECTOR		
	K1KB15A00024	15P CONNECTOR	2	
	K1KB68A00024	68P CONNECTOR	1	
	TJSF12506	6P CONNECTOR	1	
	K1KA40A00140	40P CONNECTOR	1	
	TNPA3179	CIRCUIT BOARD TB	1	(RTL)
C251	ECA1CM101	E 100UF, 16V	1	
C252	ECA1HMR22	E 0.22UF, 50V	1	
C253	ECA1VM470	E 47UF, 35V	1	
C254	ECA1HM2R2	E 2.2UF, 50V	1	
C255	ECA1HM4R7	E 4.7UF, 50V	1	
C257	EEUFC1A471	E 470UF, 10V	1	

C258	ECJ1XC1H101J	C 100PF, J, 50V	1	
C259,60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C261	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
JS251,52	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
LC251,52	ELKE103FA	NOISE FILTER	2	
R251,52	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
TNR251	ENG36620G	TUNER	1	
		CONNECTOR		
	K1KA15B00044	15P CONNECTOR	2	
	TNPA3180	CIRCUIT BOARD JA	1	(RTL)
		CONNECTOR		
	TJS3A8380	8P CONNECTOR	1	
	K1KB60B00011	60P CONNECTOR	1	
	K1KB65A00002	65P CONNECTOR	1	

TOP PREVIOUS NEXT

18 Schematic Diagram for printing with A4

TOP PREVIOUS NEXT



TOP PREVIOUS NEXT

19 Cover for printing with A4

TOP PREVIOUS

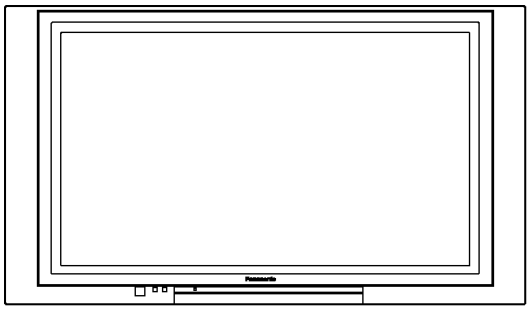


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ORDER NO. ITD0404011C1
B19 Canada: B07

Service Manual

Digital Progressive Plasma Television



TH-37PD25U-P
TH-42PD25U-P

GP6DU-DTV Chassis

Specifications

Power Source	AC 120 V, 50/60 Hz		
Power Consumption	Maximum :395 W (TH-42PD25U/P), 345W (TH-37PD25U/P)		
	Stand-by condition :0.8 W		
Plasma Display panel	Drive method :AC type 42-inch, 16 :9 aspect ratio (TH-42PD25U/P)		
	Drive method :AC type 37-inch, 16 :9 aspect ratio (TH-37PD25U/P)		
Screen Size	36.22 " (920 mm) (W) × 20.39 " (518 mm) (H) × 41.57 " (1056 mm) (diagonal) (TH-42PD25U/P)		
	32.20 " (818 mm) (W) × 18.15 " (461 mm) (H) × 36.97 " (939 mm) (diagonal) (TH-37PD25U/P)		
Dimensions	46.06 " (1170mm) × " 29.91 " (658 mm) × 3.90 " (99 mm) (TH-42PD25U/P)		
(W × H × D)	42.13 " (1070mm) × " 23.46 " (596 mm) × 3.90 " (99 mm) (TH-37PD25U/P)		
Mass (Weight)	79.4 lb.(36.0 kg)Net (TH-42PD25U/P)		
	67.2 lb.(30.5 kg)Net (TH-37PD25U/P)		
Channel Capability-ATSC/NTSC	VHF/UHF: 2-69, CATV: 1-136		
Sound			
Speaker	Woofer ϕ 1.57 " (40 mm) × 8 , Tweeter ϕ 1.38 " (35 mm) ×2		
Audio Output	16 W [8 W +8 W] (10 % THD)		
Headphone	M3 (3.5 mm) Jack × 1		
FEATURES	Two screen display fuctions	3D Y/C FILTER HDMI	
	BBE VIVA 3D	LINEAR PIP JPEG Viewer	
	CLOSED CAPTION	V-Chip	
Accessories Supplied	Remote control Transmitter	EUR7627Z10	
	AA Battery × 2	Ferrite cores (large × 4, small × 6)	
	AC Cord	F type Antenna Adaptor (3C-2V × 2, 5C-2V × 2)	
	Pedestal	Fixing band	
Operating Conditions	Temperature : 34 °F - 104 °F (0° - 40°C)		
	Humidity : 20 % - 80 % (non-condensing)		
Connection Terminals	RGB input	D-SUB 15pin	R, G, B /0.7 Vp-p (75Ω)
			HD, VD /1.0 -5.0 Vp-p (high impedance)
	AV INPUT 1-3	VIDEO	1.0 Vp-p (75Ω)
		(Phono Jack Type)	

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	S-VIDEO (Mini DIN 4-pin)	Y :1.0 Vp-p (75Ω), C : 0.286 Vp-p (75Ω)
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
AV PROG.OUT	VIDEO (Phono Jack Type)	1.0 Vp-p (75Ω)
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
TO AUDIO AMP	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
COMPONENT VIDEO INPUT1-2	Y	1.0 Vp-p (including synchronization)
	PB /PR	± 0.35 Vp-p
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
HDMI	HDMI type A Connector	
	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
DIGITAL AUDIO OUT	PCM/Dolby Digital, Fiber Optic	

Note:

Design and Specifications are subject to change without notice.Weight and Dimensions shown are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.73	59.94

Applicable input signals (∗ mark)

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	COMPONENT	PC	HDMI
1	525 (480) /60i	15.73	59.94	∗	∗	∗
2	525 (480) /60p	31.47	59.94	∗	∗	∗
3	750 (720) /60p	45.00	60.00		∗	
4	1,125 (1,080) /60i	33.75	59.94	∗	∗	∗
5	640 × 400 @70	31.47	70.00		∗	
6	640 × 480 @60	31.47	59.94		∗	
7	Macintosh13" (640 × 480)	35.00	66.67		∗	
8	640 × 480 @75	37.50	75.00		∗	
9	852 × 480 @60	31.50	60.00		∗	
10	800 × 600 @60	37.88	60.32		∗	
11	800 × 600 @75	46.88	75.00		∗	
12	800 × 600 @85	53.67	85.06		∗	
13	Macintosh16" (832 × 624)	49.73	74.55		∗	
14	1,024 × 768 @60	48.36	60.00		∗	
15	1,024 × 768 @70	56.48	70.07		∗	
16	1,024 × 768 @75	60.02	75.03		∗	
17	1,024 × 768 @85	68.68	85.00		∗	
18	Macintosh21" (1,152 × 870)	68.68	75.06		∗	
19	1,280 × 1,024 @60	63.98	60.02		∗	
20	1,280 × 1,024 @75	79.98	75.03		∗	
21	1,280 × 1,024 @85	91.15	85.02		∗	
22	1,600 × 1,200 @60	75.00	60.00		∗	

Note: Signals without above specification may not be displayed properly.

2 Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

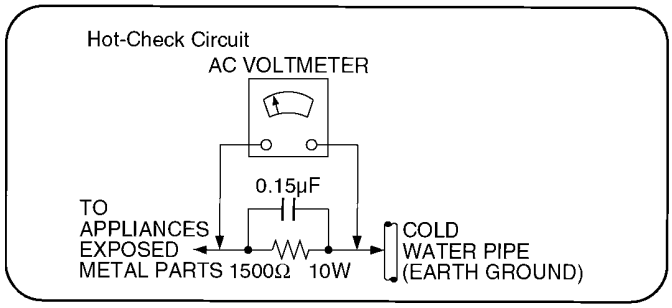


Figure 1

2.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15µF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

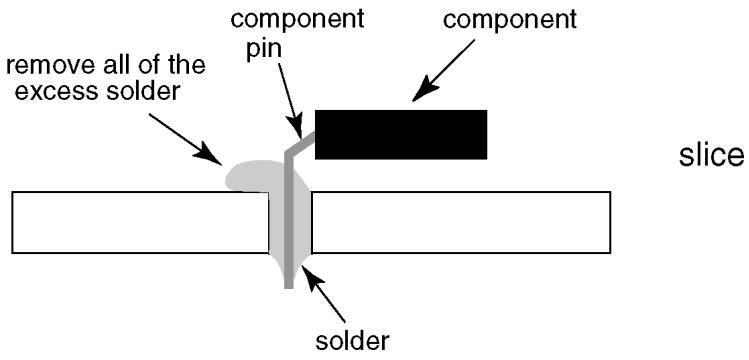
This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol (PbF) stamped on the back of PCB.

Caution

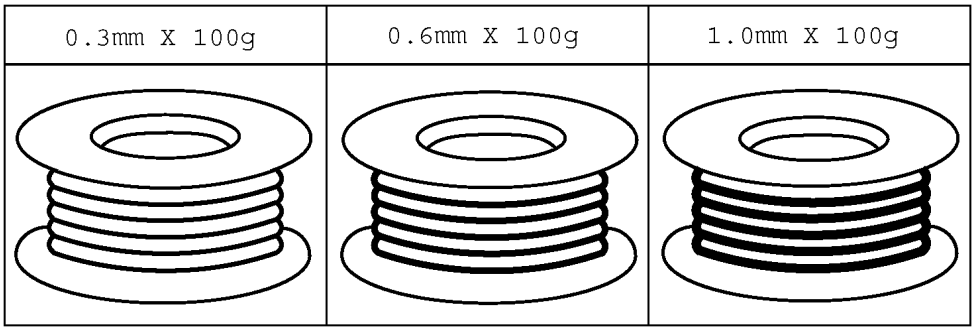
- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

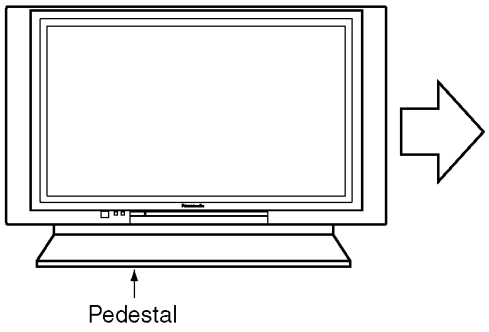
There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

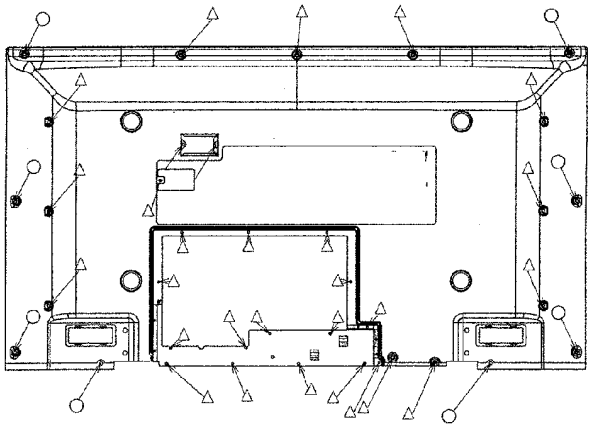


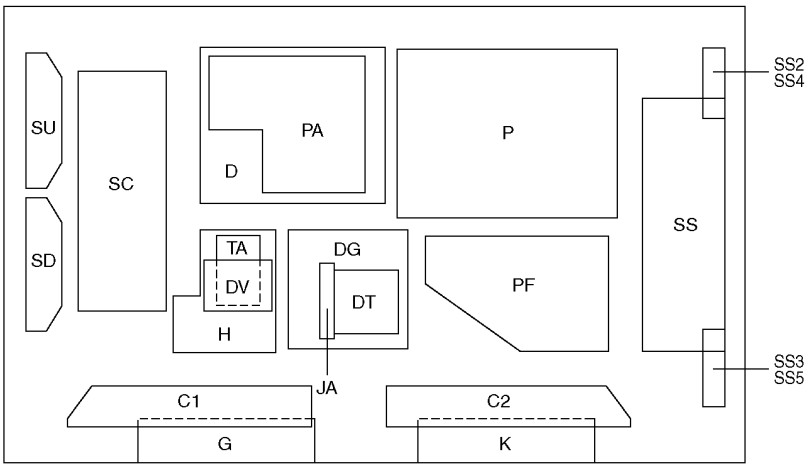
5 Service Hint

Remove the Back Cover

Stand the Unit used for Pedestal







Remove: 8 screws (△) XTB4+15AFZ
27 screws (○) THEL023Z

Service Position

Board Name	Function	Board Name	Function
C1	DATA DRIVER (RIGHT)	PF	LINE FILTER
C2	DATA DRIVER (LEFT)	SC	SCAN DRIVE
D	DIGTAL SIGINAL PROCESS	SD	SCAN OUT (DOWN)
DG	DIGTAL CORE MICOM	SS	SUSTAIN DRIVE
G	FRONT TERMINAL, SWITCH	SS2	SUSTAIN CONNECTION (UP)
H	REAE TERMINAL	SS3	SUSTAIN CONNECTION (DOWN)
K	LED, REMOTE, POWER SWITCH	SU	SCAN OUT (UP)
P	POWER SUPPLY	TA	ANALOG TUNER
PA	DC/DC, AUDIO	DT	DIGITAL TUNER
DV	HDMI INTERFACE	JA	INTERFACE

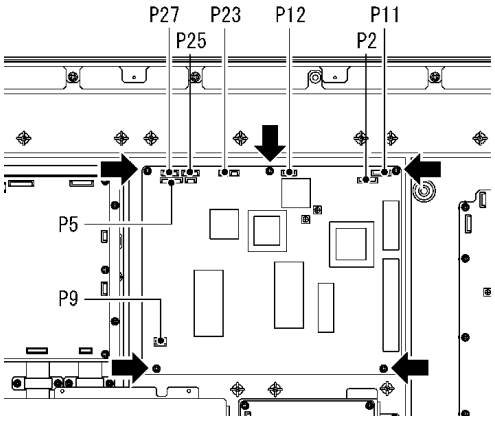
Note:

DT-Board is PAVCA supplyed.

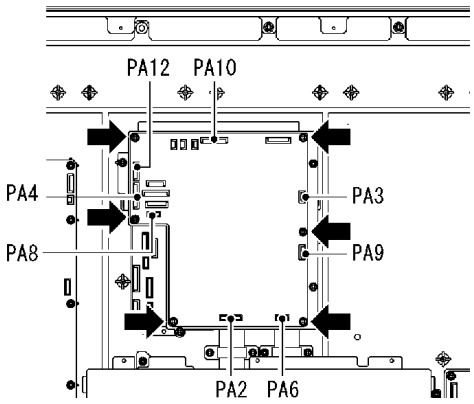
6 Plasma panel replacement method

■ To replace the plasma panel (finished), place the unit on the servicing stand, remove the front frame (finished), and attach the panel, being careful not to scratch the plasma panel surface.

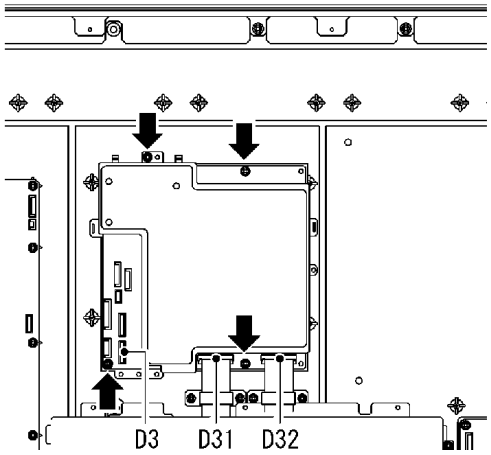
1. Remove the rear cover.
2. Remove the P board.
   a. Remove the couplers (P2, P5, P9, P11, P12, P23, P25, P27) connected to the P board.
   b. Remove the P board fastening screws (×5) and remove the P board.



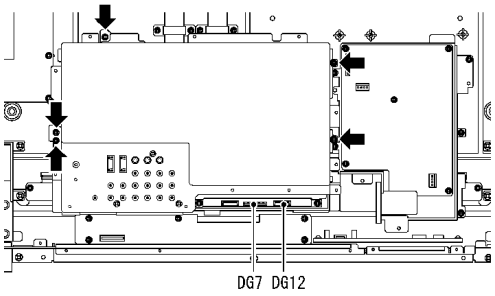
3. Remove the PA board.
   a. Remove the couplers (PA2, PA3, PA4, PA6, PA8, PA9, PA10, PA12) connected to the PA module.
   b. Remove the PA board fastening screws (×6) and remove the PA board.



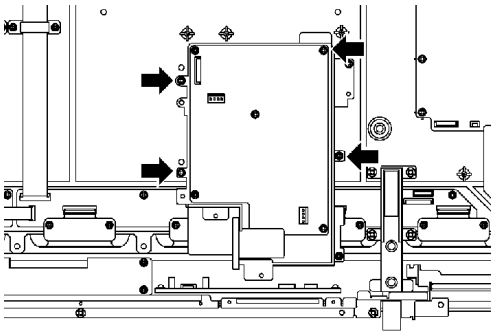
4. Remove the D board.
   a. Remove the coupler (D3) connected to the D board.
   b. Remove the flexible cables (D31, D32) connected to the D board.
   c. Remove the D board fastening screws (×4) and remove the D board.



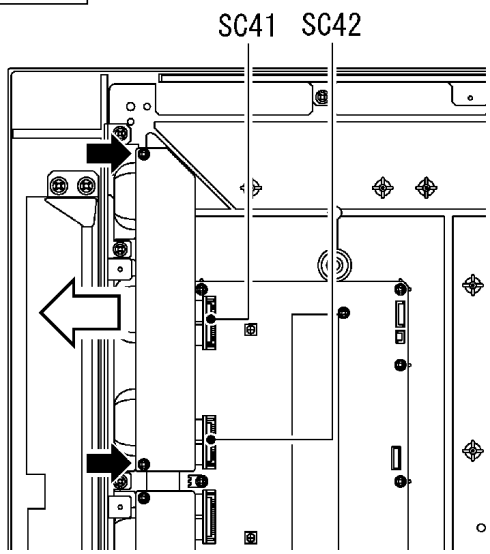
5. Remove the tuner unit.
   a. Remove the coupler (DG12) connected to the tuner unit.
   b. Remove the flexible cable (DG7) connected to the tuner unit.
   c. Remove the tuner unit fastening screws (×5), and remove the tuner unit.



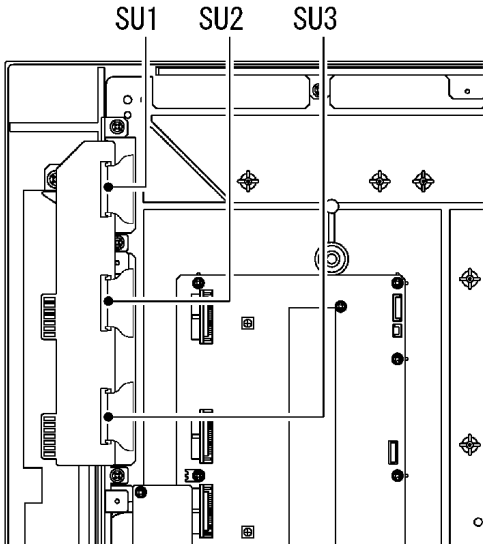
6. Remove the power supply unit.
   a. Remove the PF board fastening screws (×4), and remove the power supply unit.



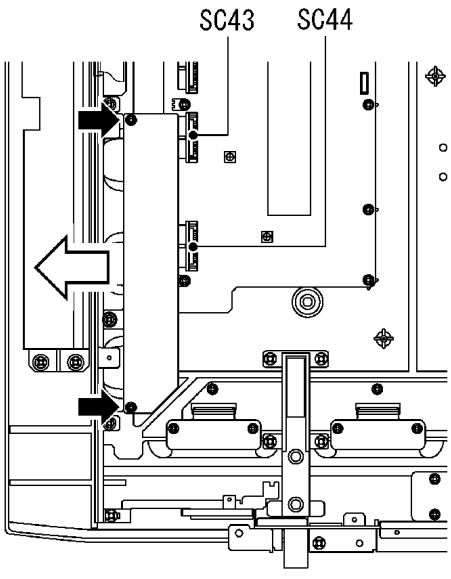
7. Remove the SU board.
   a. Remove the SU board fastening screws (×2).
   b. Move the SU board to the left and disconnect from the couplers (SC41, SC42) on the SC board.



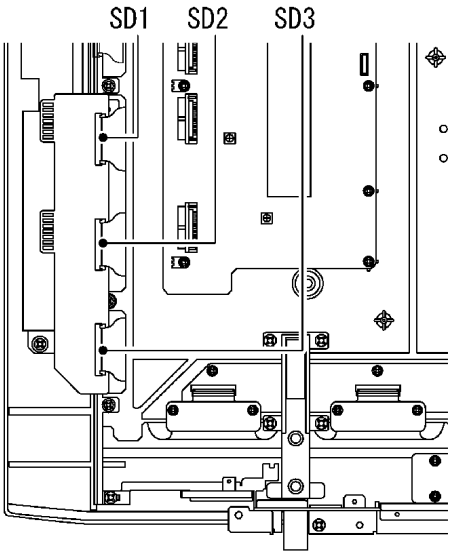
c. Remove the flexible cables (SU1, SU2, SU3) connected to the SU board, and remove the SU board.



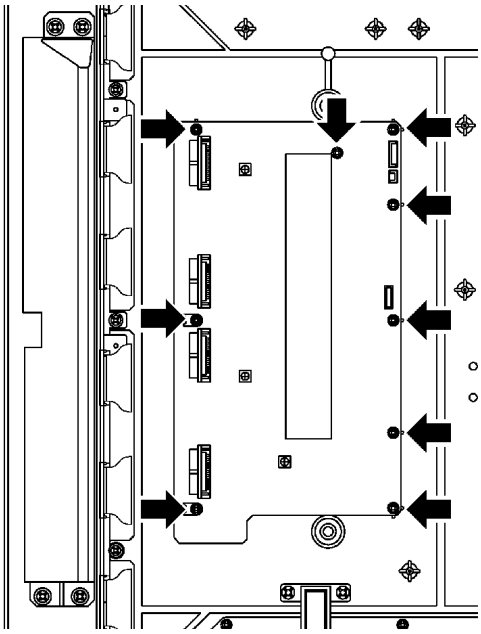
8. Remove the SD board.
   a. Remove the SD board fastening screws (×2).
   b. Move the SD board to the left and disconnect from the couplers (SC43, SC44) on the SC board.



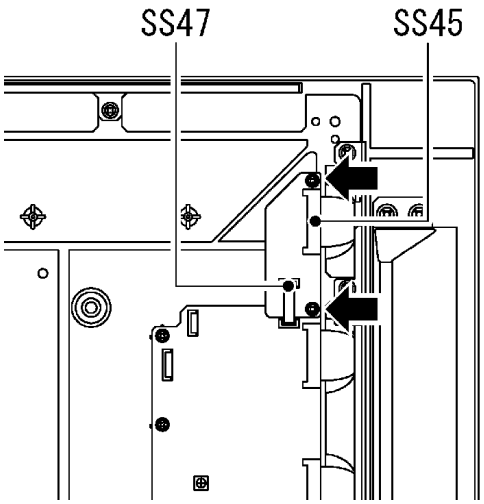
c. Remove the flexible cables (SD1, SD2, SD3) connected to the SD board, and remove the SD board.



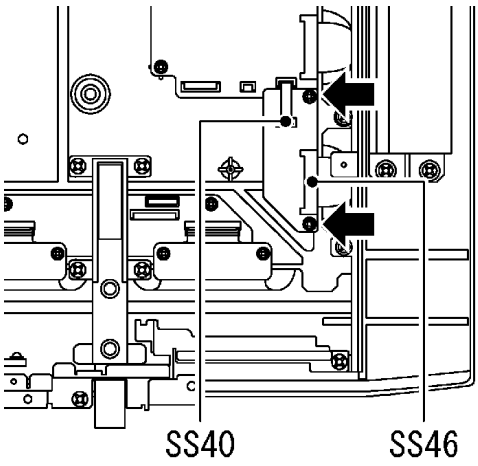
9. Remove the SC board.
   a. Remove the SC board fastening screws (×9) and remove the SC board.



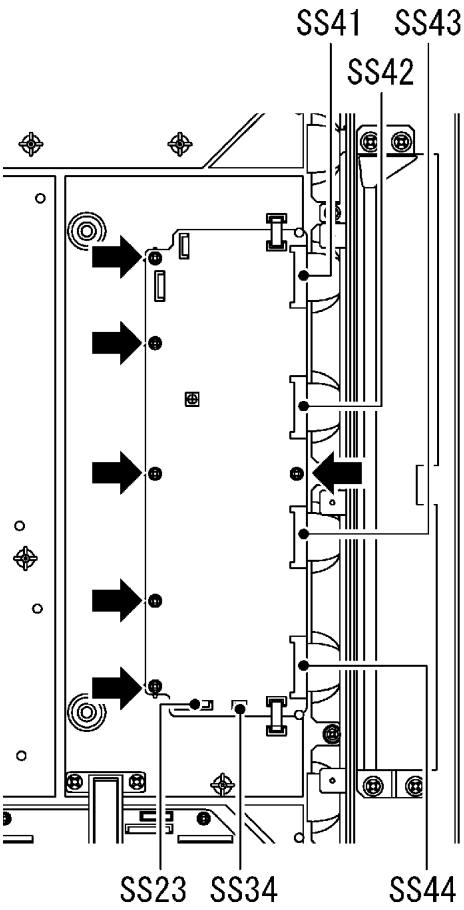
10. Remove the SS2 board.
    a. Remove the coupler (SS47) connected to the SS2 board, and remove the flexible cable (SS47).
    b. Remove the SS2 boarde fastening screws (×2), and remove the SS2 board.



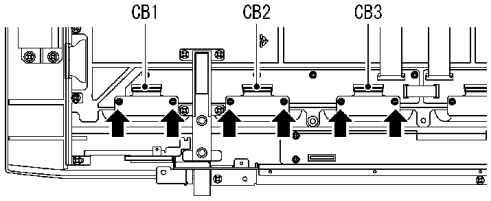
11. Remove the SS3 board.
    a. Remove the coupler (SS40) and flexible cable (SS46) connected to the SS3 board.
    b. Remove the SS3 board fastening screws (×2), and remove the SS3 board.



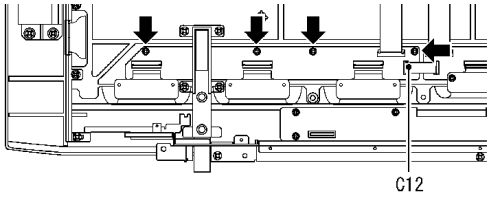
12. Remove the SS board.
    a. Remove the couplers (SS23, SS34) connected to the SS board, and remove the flexible cables (SS40, SS47) connected to the SS3 board and SS2 board.
    b. Remove the flexible cables (SS41, SS42, SS43, SS44) connected to the SS board.
    c. Remove the SS board fastening screws (×6), and remove the SS boards.



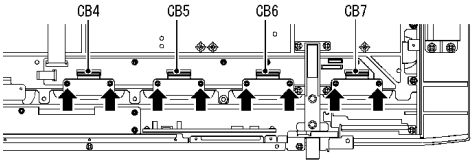
13. Remove the C1 board.
    a. Remove the flexible cable holder fastening screws (×6) connected to the C1 board, and remove flexible cables (CB1, CB2, CB3).



    b. Remove the flexible cable (C12) connected to the C1 board.
    c. Remove the C1 board fastening screws (×4), and remove the C1 board.

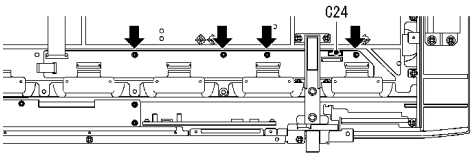


14. Remove the C2 board.
    a. Remove the flexible cable holder fastening screws (×8) connected to the C2 board, and remove the flexible cables (CB4, CB5, CB6, CB7).



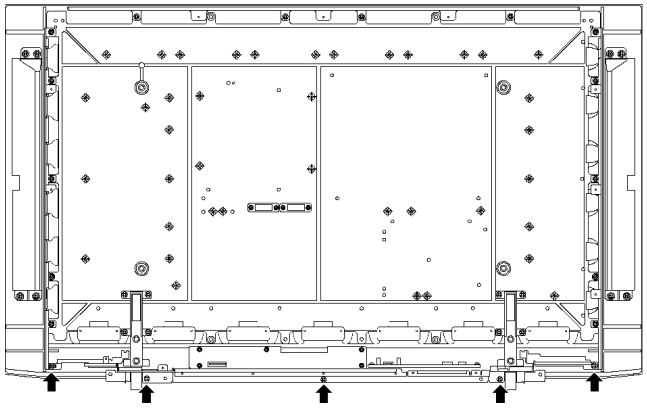
b. Remove coupler (CC24) connected to the C2 board.

c. Remove C2 board fastening screws (×4), and remove the C2 board.



15. Remove the shield plate (bottom).

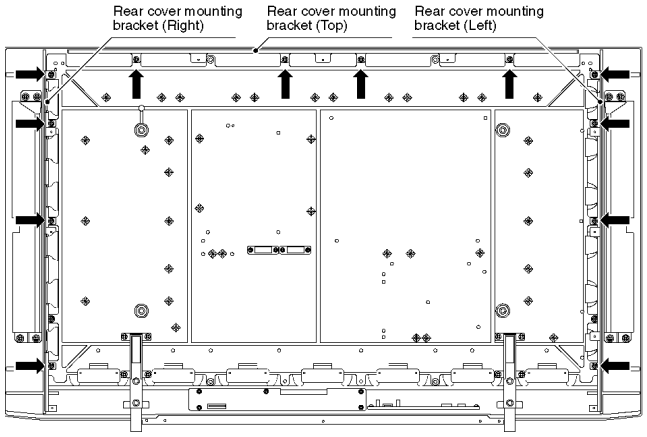
a. Remove the shield plate (bottom) fastening screws (×7), and remove the shield plate (bottom).



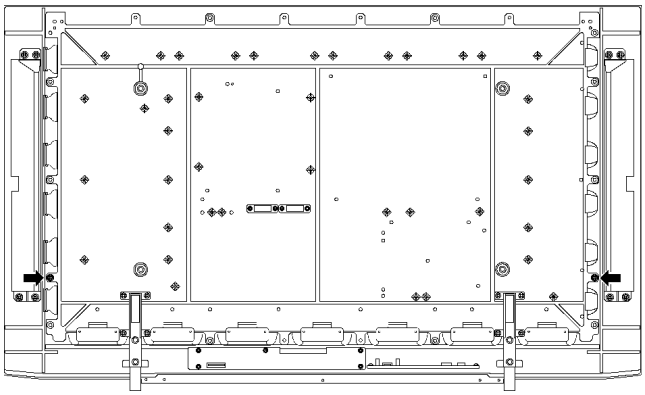
16. Remove the rear cover mounting brackets.

a. Remove the rear cover mounting bracket (top) fastening screws (×4), and remove the rear cover mounting bracket (top).

b. Remove the rear cover mounting bracket (left, right) fastening screws (×4 each), and remove the rear cover mounting brackets (left and right).

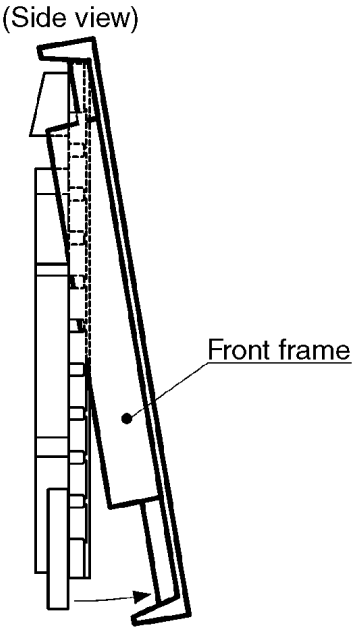


c. Remove the fastening screws (×2) holding the front frame and plasma panel.



17. Remove the front frame.

a. Leaving the front glass and front board unit attached to the front frame, pull the bottom of the front frame forward, lift, and remove.

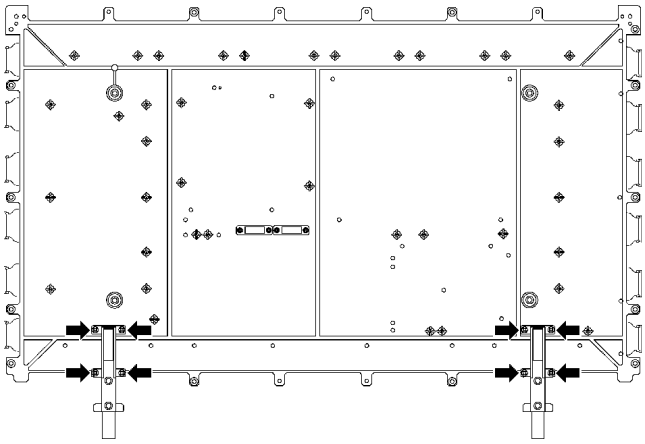


18. Remove stand brackets.

a. Remove the plasma panel section from the servicing stand and lay on a surface such as a table (covered), with the plasma panel surface facing downward.

Spread a soft cloth or similar on the table for protection, so the panel surface is not scratched.

b. Remove the stand bracket (left, right) fastening screws (×4 each) and remove the stand brackets (left, right).

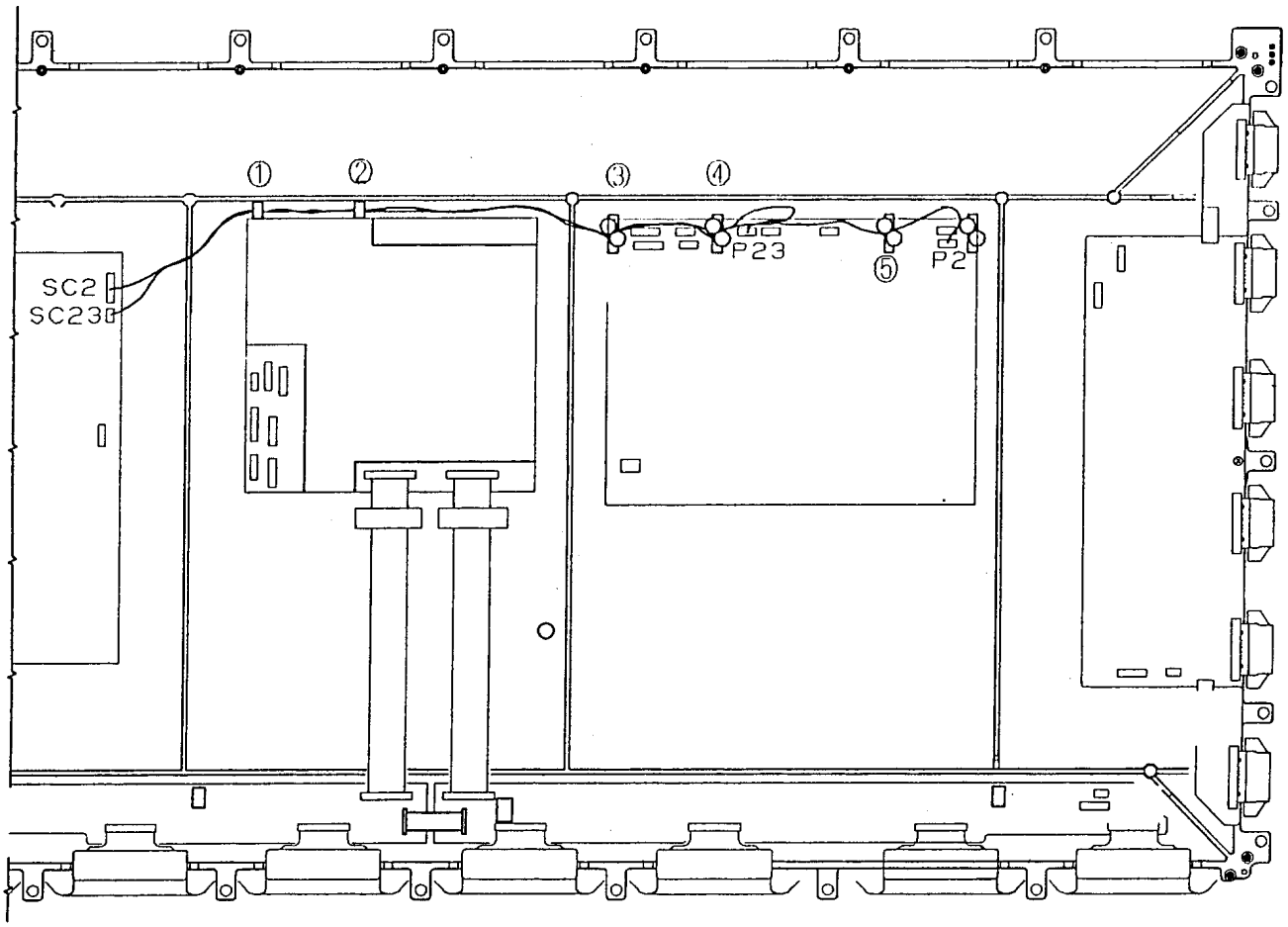


19. Prepare the new panel (finished).
    a. Obtain a new plasma panel (finished) to replace the old plasma panel (finished).
    b. Place the new plasma panel (finished) on a surface such as a table (covered), with the plasma panel surface facing downward.
20. Install the new plasma panel (finished).
    a. Fit the stand brackets (left, right) to the new plasma panel.
    b. Place the plasma panel section on the servicing stand.

*** When fitting the front frame, be careful not to allow any debris, dust or handling residues to remain between the front glass and plasma panel.**

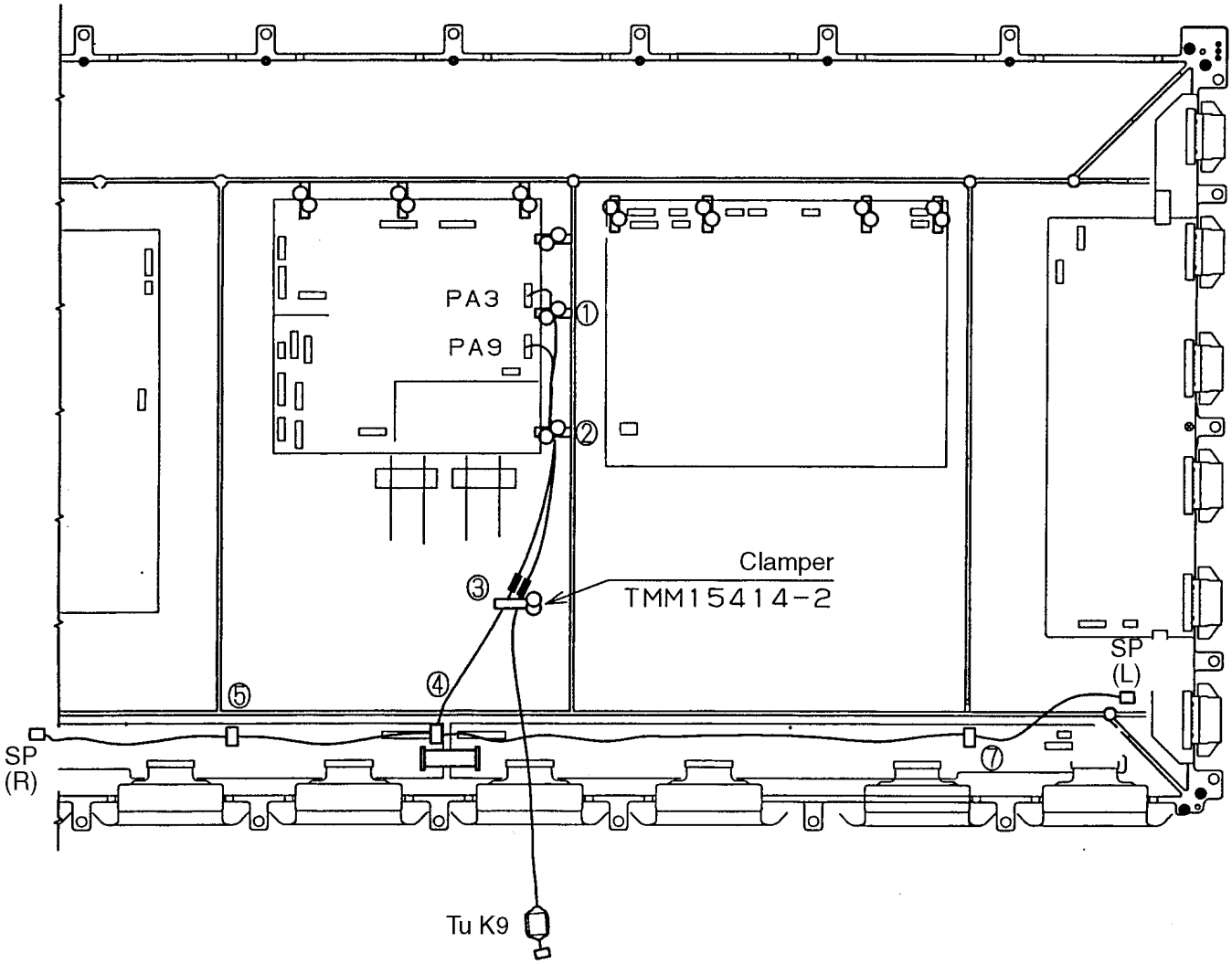
7 Location of Lead Wiring

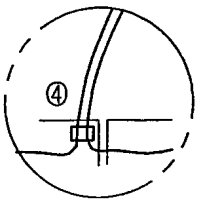
7.1. Lead of Wiring (1)



CON:NO. —— CON:NO.	①	②	③	④	⑤	⑥
SC2 —— P2	○	○	○	○	○	
SC23 —— P23	○	○	○	○		
——						

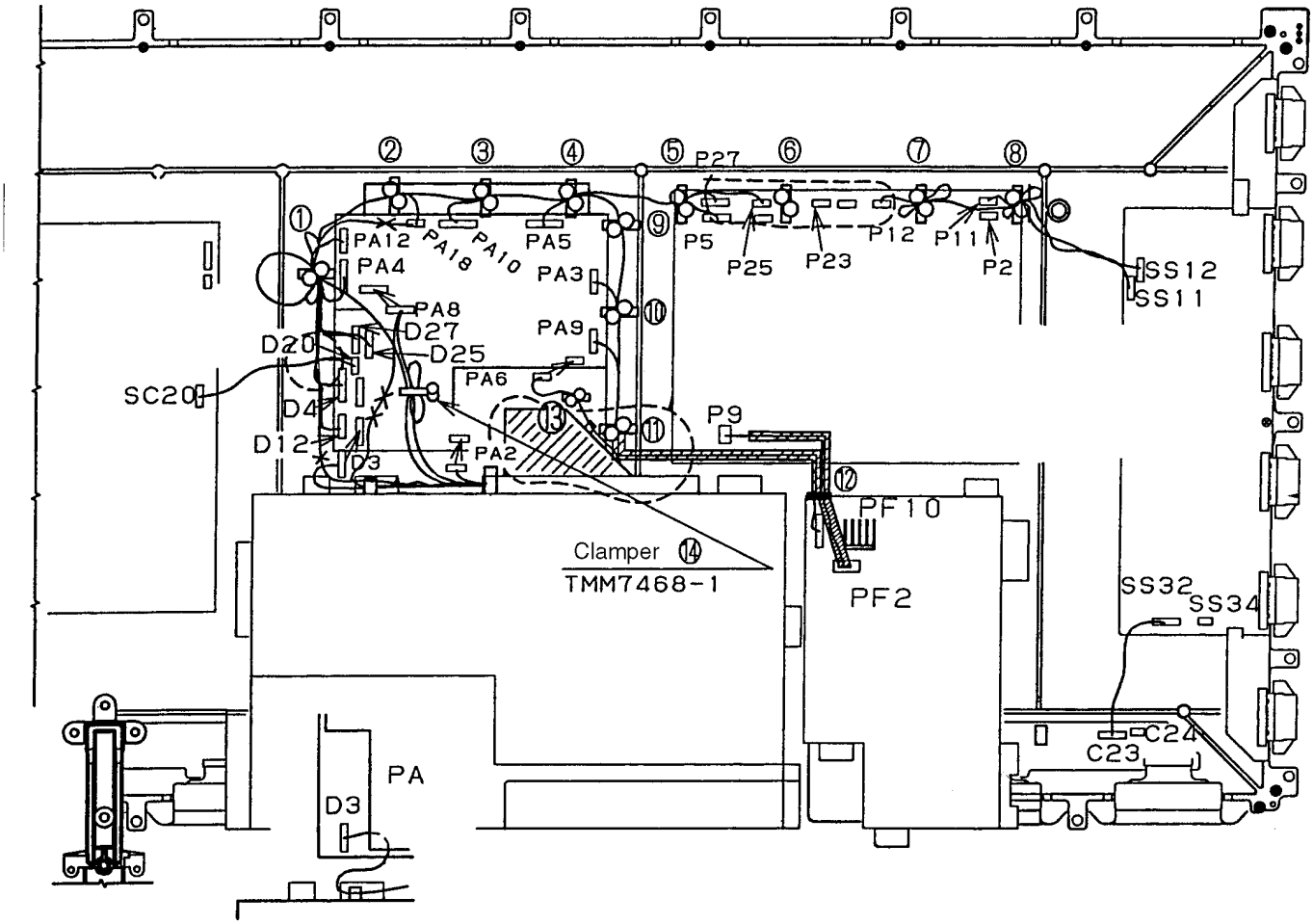
7.2. Lead of Wiring (2)





CON:NO. —— CON:NO.	①	②	③	④	⑤	⑦
PA3 —— SPR	○	○	○	○	○	
PA3 —— SPL	○	○	○	○		○
PA9 —— K9		○	○			

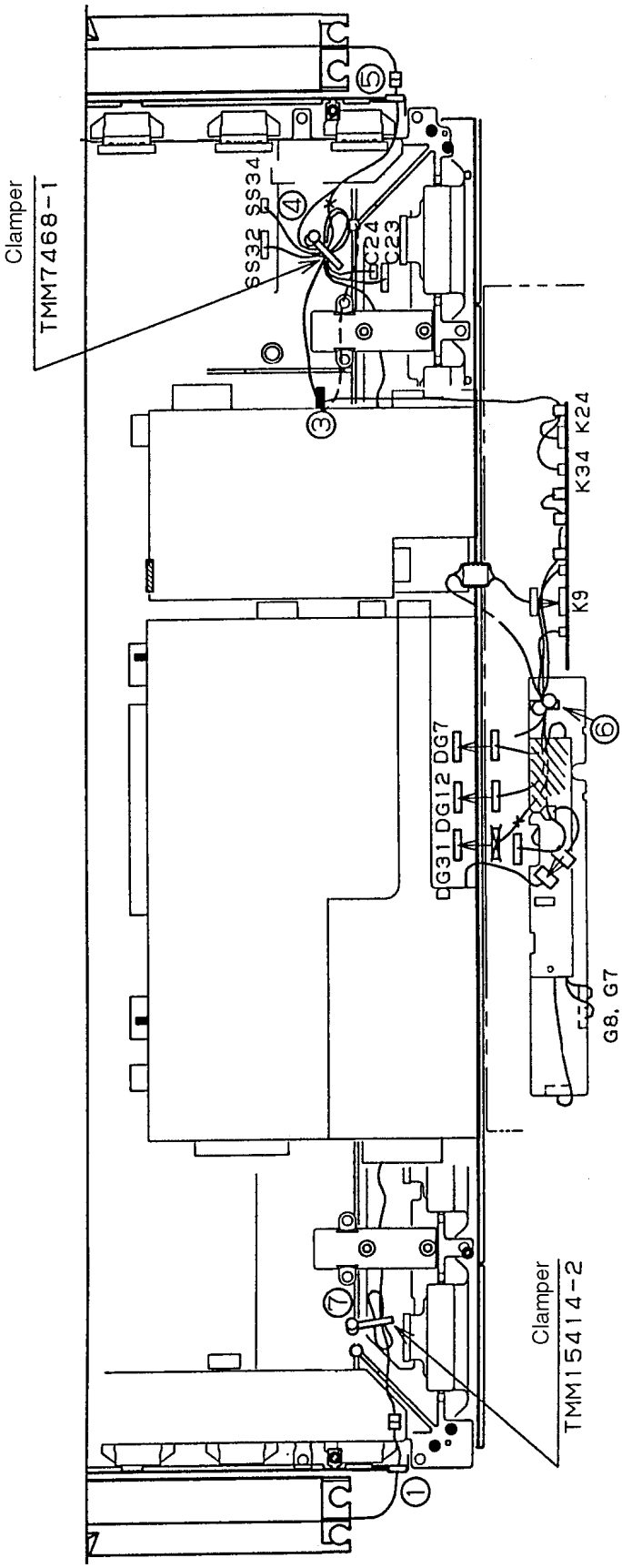
7.3. Lead of Wiring (3)



CON:NO. — CON:NO.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭
SC20 — D20														
D12 — PA12	○													
D4 — PA4	□													
D25 — P25	○	○	○	○	○									
D27 — P27	○	○	○	○	○									
PA5 — P5				○	○									
SS11 — P11								△						
SS12 — P12							△	○						
PA10 — PF10			○	○					○	○	○	○		
PF2 — P9												○		
PA18-BA3	●	○												○
PA6-													○	
PA8-														△

● Wind up 2 times
△ Wind up 3 times
□ Wind up 4 times

7.4. Lead of Wiring (4)



CON:NO. - CON:NO.	①	③	④	⑤	⑥	⑦
K24 - [C24]		○	●			
K34 - [SS34]		○	●			
SS23 - [C23]			●			
PA3 - [SPR]	○					△
PA3 - [SPL]			●	○		
K9 -					○	

● Wind up 2 times △ Wind up 3 times

8 Self-check Function

When symptoms like “the power fails sometimes” or “sometimes there is no picture and/or sound” can not be confirmed at the time of servicing, the self-check function can be used to confirm the occurrence and to find the defective circuit.

In case of “power failure”, flashing of the “POWER” indication (red) at the front of the unit can be used to narrow down the +B line.

8.1. Self-check of the microcomputer control system (bus line)

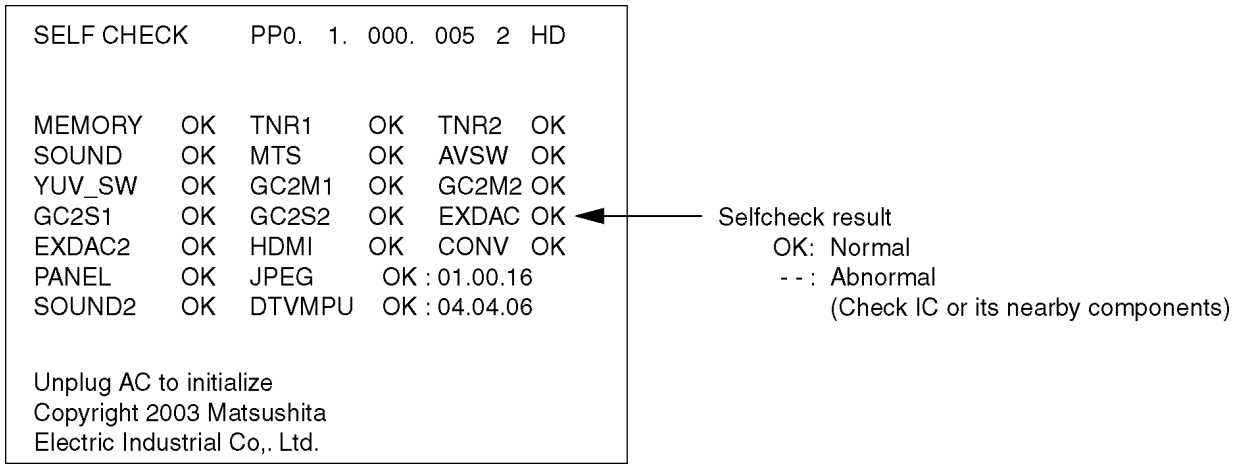
Indicaton method

Press the “OK” button in the control panel of the unit simultaneously with the “POWER” button in the control panel of the unit. Hold them a few seconds.

Return to he normal screen

Press any button on the unit or in the remote control.

Screen Display



Display	Ref. No.	Description	Board
MEMORY	IC002	EEPROM for Main MPU	DG
SOUND	IC2401	Sound Control	PA
YUV_SW	IC4302	YUV switch	H
GC2S1	IC4502	Global Core 2 for sub	DG
EXDAC2	IC5011	EXDAC	DV
PANEL	- - - - -	Panel	- - - - -
SOUND2	IC4203	BBE VIVA	H
TNR1	TNR8000	Tuner 1	DT
MTS	IC8008	NXTWARE	DT
GC2M1	IC4501	Global Core 2 for main	DG
GC2S2	IC9305	New Plasma AI (Slave)	D
HDMI	IC5003	HDMI Recelver	DV
JPEG	IC6013	JPEG I/F	JG
DTVMPU	IC8024	HDsL Peaks	DT
TNR2	TNR251	Tuner 2	TB
AVSW	IC4301	AV switch	H
GC2M2	IC9455	New Plasma AI (Master)	D
EXDAC	IC3003	External I/O	DG
CONV	IC3801	Convert Micom	DG

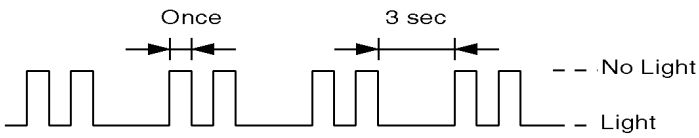
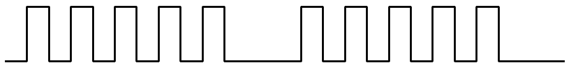
8.2. Power LED Blinking timing chart

1. Subject

   Information of LED Blinking timing chart.

2. Contents

   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver
12		PA board Base Voltage (15, 12, 9, 5, 2.5V)

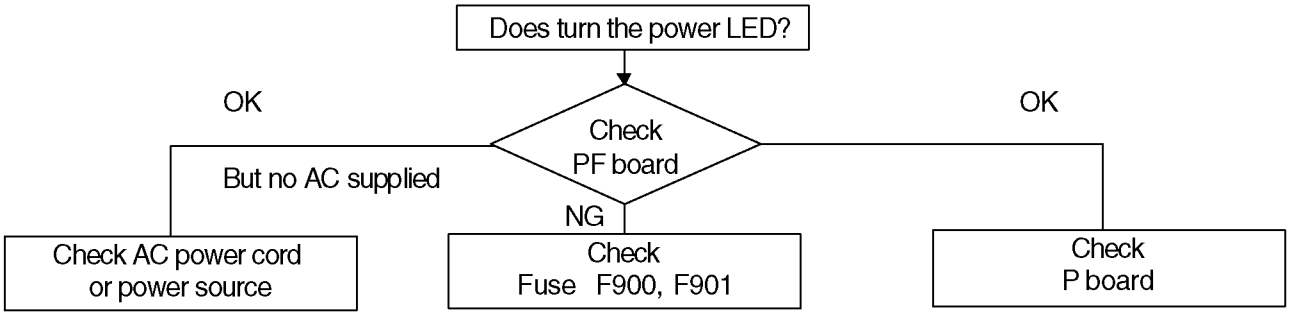
8.3. No Power

First check point

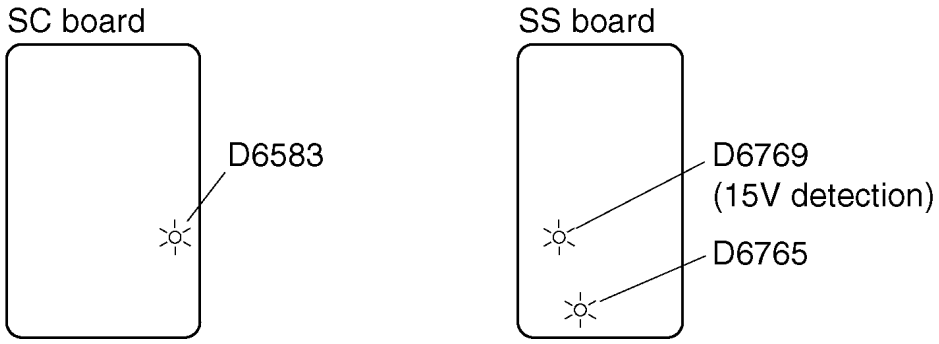
There are following 3 states of No Power indication by power LED.

1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

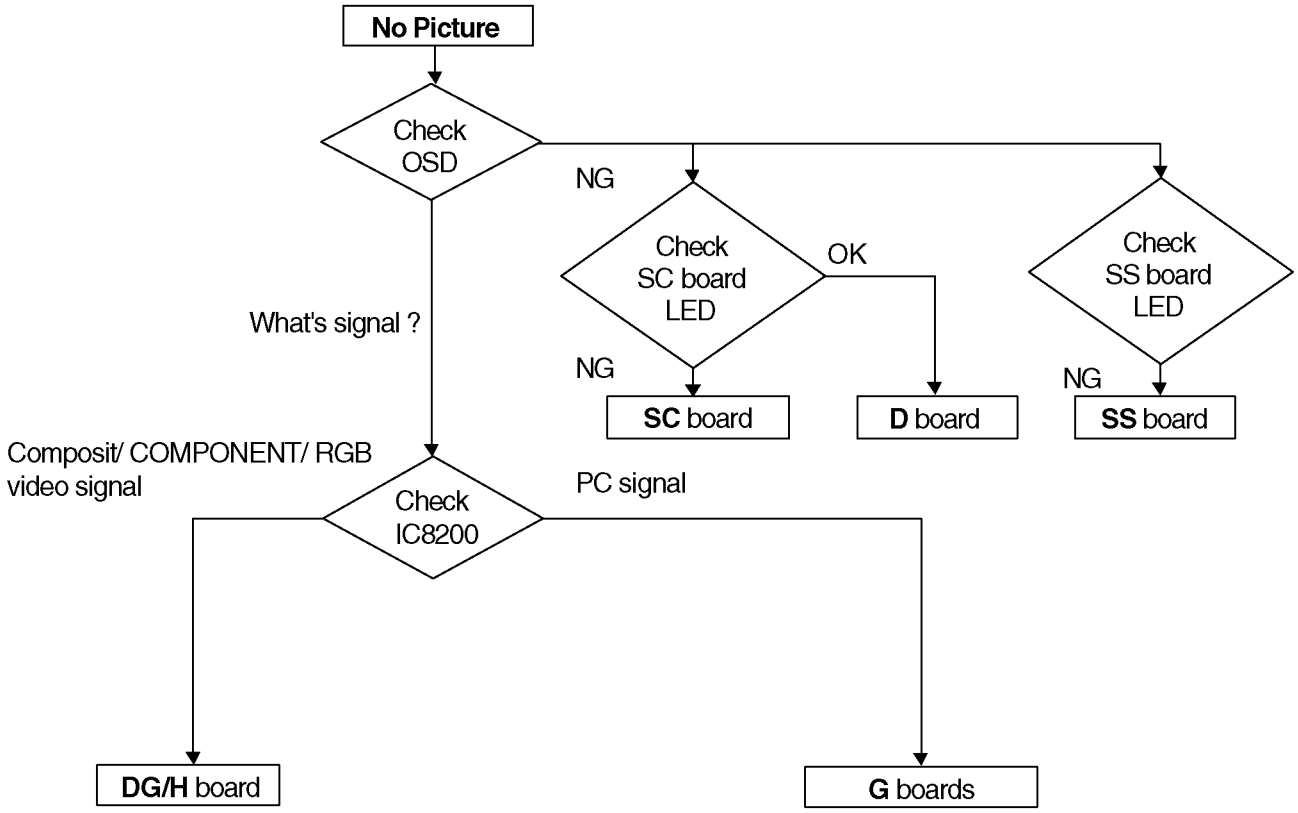
1. No lit



Drive circuits LED indicator

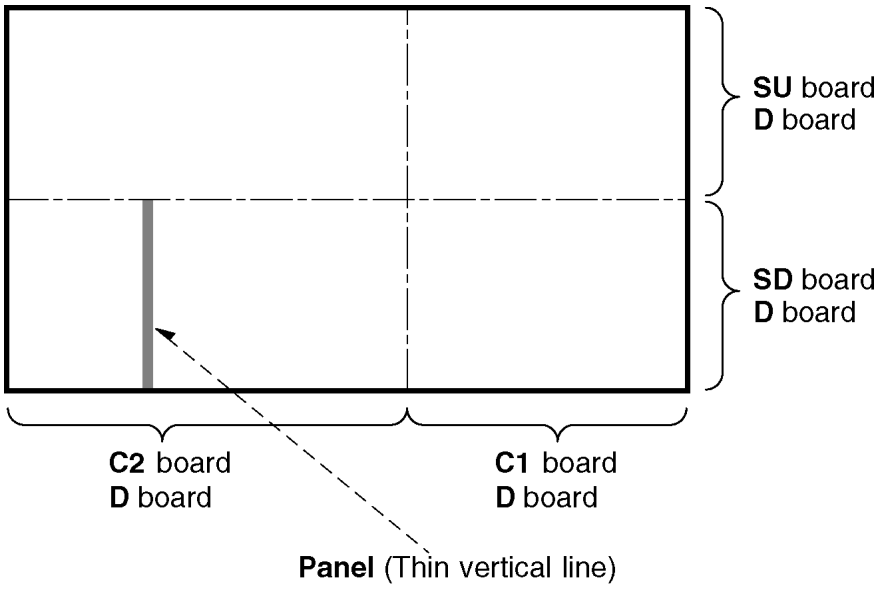


8.4. No Picture



8.5. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.



<Local screen failure chart>

Fig - 1

9 Serviceman Mode (Electronic Controls)

This Receiver has electronic technology using the I^2C BUS Concept. It performs as a control function and it replaces many mechanical controls. Instead of adjusting mechanical controls individually, many of the control function are now performed by using “On Screen Display Menu”. (The **Serviceman Adjustment Mode**.)

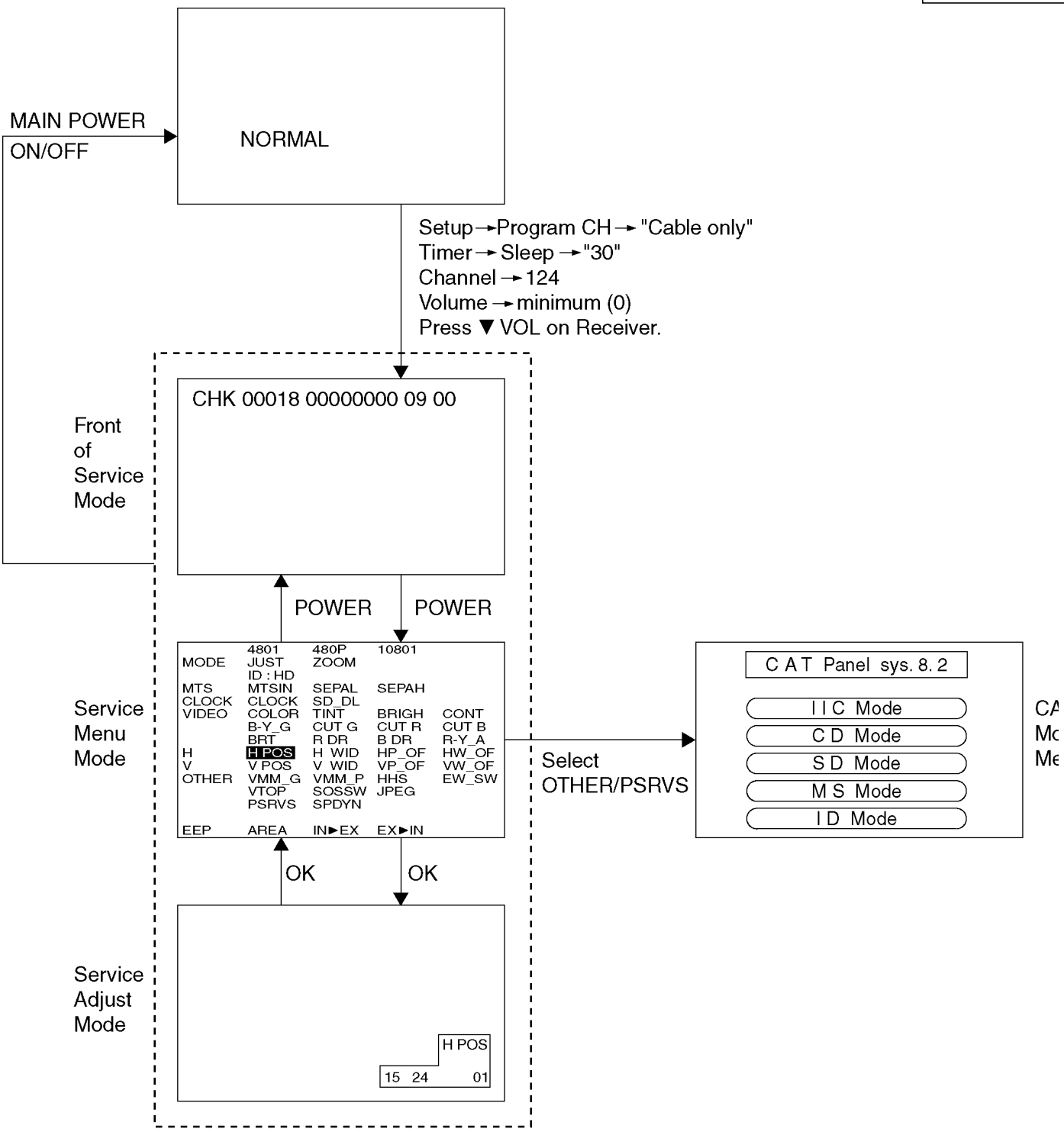
Note

It is suggested that the technician reads all the way through and understand the following the procedure for Entering/Exiting the **Serviceman Mode**; then proceed with the instructions working the Receiver. When becoming familiar with the procedure, the Flow Chart for Serviceman Mode may be used as a quick guide.

Quick Entry to Serviceman Mode:

At times when minor adjustments need to be done to the electronic controls, the method of Entering the serviceman Mode without removal of the cabinet back is as follows using the Remote Control:

1. Press the MENU button to display the Main menu, select SET-UP icon and then select the Program CH to set “Cable only” (Input Setup) mode.
2. Return to the Main menu, Press MENU button twice and select TIMER icon, Press OK to set SLEEP time for 30 Min. With Press the Vol. ▶ .
3. Press MENU button twice to exit menus.
4. Tune to the Channel 124.
5. Adjust VOLUME to minimum (0).
6. Press the VOL ◀ button (decrease) **on set**. Red “CHK” appears in upper corner.



Exiting the Serviceman Mode:

Press the **Power** button on the **Receiver.**

For Adjustments:

1. **Press Channel Up/Down** on the **Remote Control** to select one of the available Service Adjustments and press the OK button.

   Note:

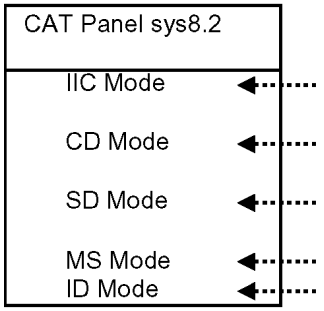
   Write Down the original value set for each address before modifying anything. It is easy to erroneously adjust the wrong item.

2. **Press Volume Up/Down** on the **Remote Control** to adjust the level of the selected Service Adjustment.

MAIN ITEM	SUB ITEM	ORIGINAL VALUE	EEPROM ADRESS		DEFAULT LEVEL
			SLEEVE	SUB	
VIDEO	COLOR	00	1A		15
	TINT	00	1B		01
	BRIGH	00	20	09	B0
	CONT	00	24	02	85
	B-Y-G	00	1C		3E
	CUT G	00	28		80
	CUT R	00	2E	01	00
	CUT B	00	31	01	00
	BRT	00	A5	09	B0
	R DR	00	46		7D
	B DR	00	47		7E
	R-Y-A	00	1D		00
H	H POS	15	24		FD
	H WID	15	23		08
	HP OF	15	81		00
	HW OF	15	80		00
V	V POS	15	26		08
	V WID	15	25		15
	VP OF	15	83		00
	VW OF	15	82		00
	EW-SW	00	9E		00
	VTOP	00	9E		B8
OTHER	SOSSW	01	97		01
	JPEG	00	F1		00
	POFWT	15	89		0A
	PSRVS	15	85		00
	SPDYN	15	86		00
EEP	AREA	15	9C		ALL
	IN ▶ EX	15	9D		
	EX ▶ IN	15	9E		

10 CAT (computer Aided Test) mode

CAT mode menu



Mode	Function	Access button
IIC	Service Alignment	OK
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	OK
MS Mode	Not use	-----
ID	Not use	-----

How to access the CAT mode.

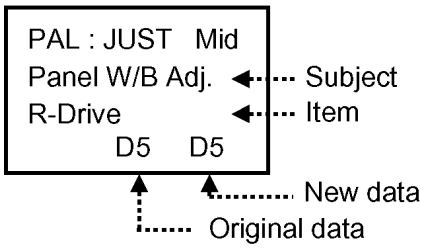
1. Enter the serviceman mode.
2. Select the OTHER (PSRVS).
3. Press the OK button on the remote control.

To exit the **CAT mode**, and switch off the main power.

10.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Action button** on the remote control.

OSD



How to use the IIC mode.

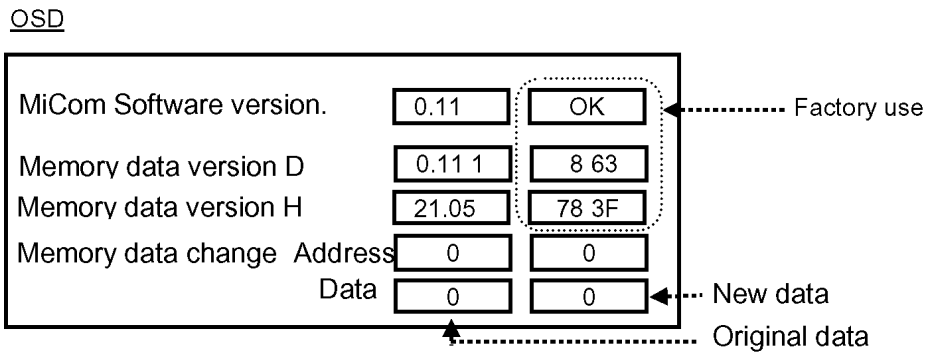
1. Select the alignment **Subject** by **1/2 buttons** on the remote control.
2. Select the alignment **Item** by **3/4 buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

"IIC mode structure".

To exit the IIC mode, press the **RECALL or MENU button** on the remote control.

10.2. CD mode

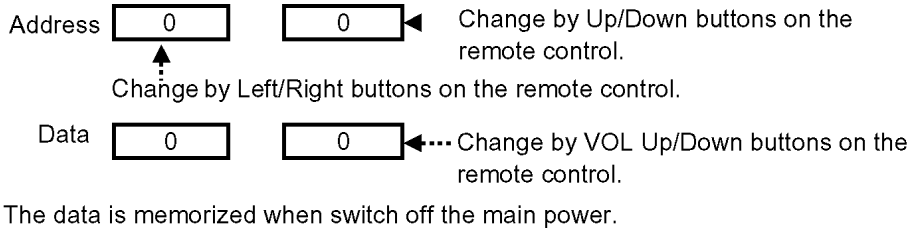
Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Mute button** on the remote control more than 5 sec.



Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC
2. Loading the new version software from loader tool, TZSC07036.

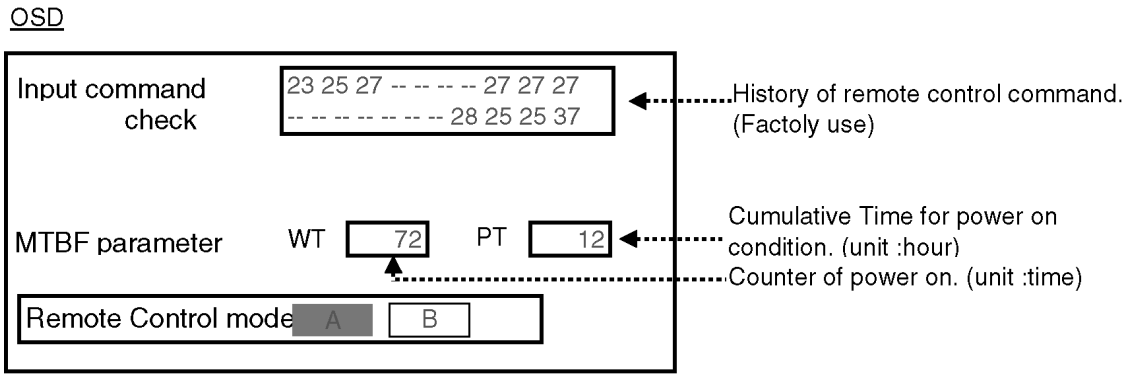
Memory data change



To exit the CD mode, press the **RECALL or MENU button** on the remote control.

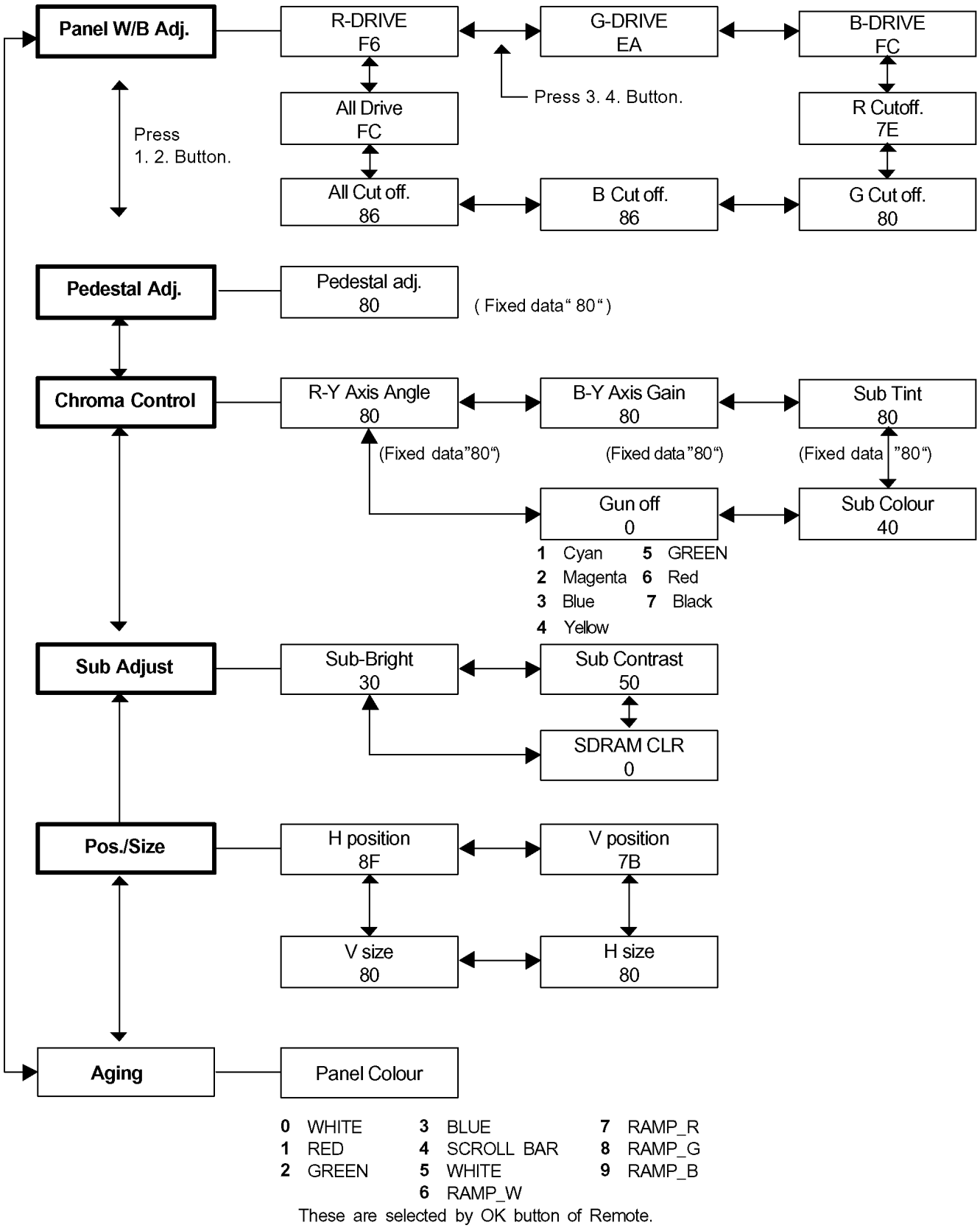
10.3. SD mode

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the OK button on the remote control.



To exit the SD mode, press the **RECALL or MENU button** on the remote control.

10.4. IIC mode structure (following items value is sample data.)



11 Adjustment Procedure

11.1. +B Set-up

11.1.1. Item / Preparation

1. Input a Grey scale signal.
2. Set the picture controls: -
   Picture mode: Normal
   White balance: Normal

11.1.2. Adjustment / Confirmation

Adjust and confirm indicated test point for the specified voltage.

Adjust

Name	Volume	Voltage	Test Point	Remarks
Vsus	R605	170V ± 1V	P11 pin 2	
Vda	R590	67V ± 0.5V	P12 pin 1	

Confirm

Name	Voltage	Test Point	Remarks
15V	15.4V ± 0.5V	P23 pin 1	
15V	15.2V ± 0.5V	P7 pin 1	
12V	11.8V ± 0.5V	P25 pin 1	
Audio 12V	12.5V ± 0.8V	P5 pin 7	
5V	5.1V ± 0.3V	P25 pin 5	
STB 5V	5.0V ± 0.3V	P27 pin 4	
Fan 15V	15.4V ± 0.5V	P10 pin 1	
Fan 5V	5.1V ± 0.3V	P10 pin 4	
PFC	380V ± 15V	C468(+), C468(-)	

11.2. Driver Set-up

11.2.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -
   Picture mode: Normal
   White balance: Cool
   Aspect: 16:9

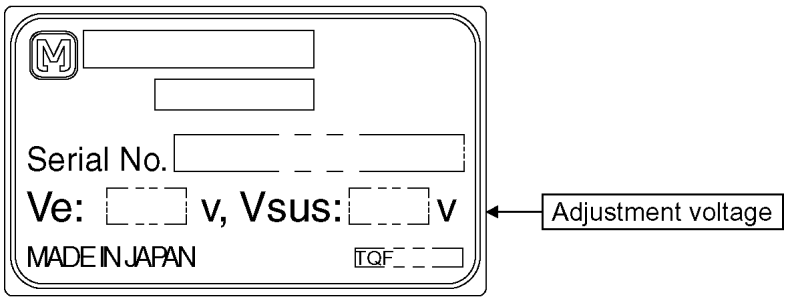
11.2.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
Vset	TPVSET (SC)	218V ± 6V	Fixed	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	Fixed	
Vda	TPVDA (SS)	67V ± 1V	R590 (P)	

*See the Panel label.

Panel Label information



11.3. Initialization Pulse Adjust

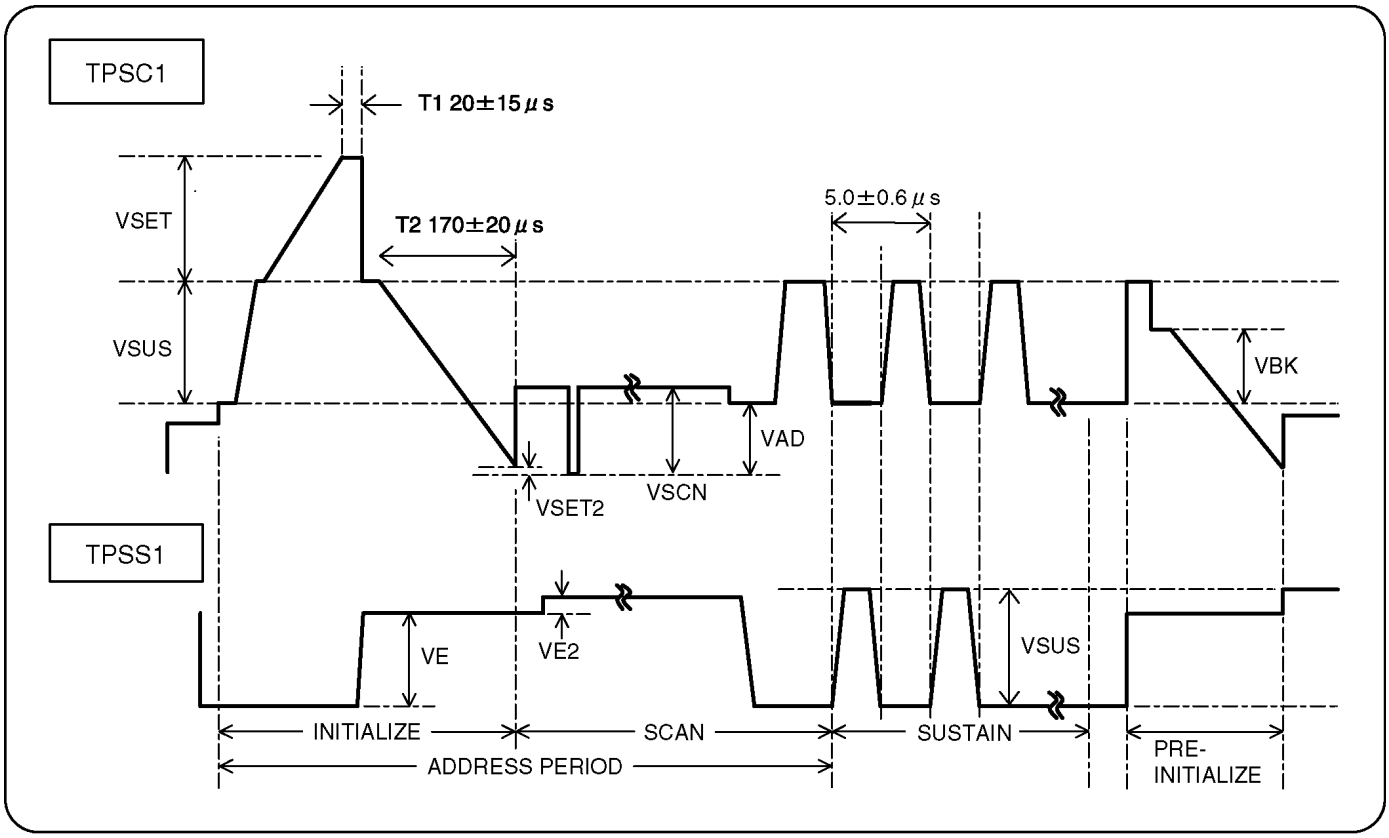
1. Input a Cross hatch signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	R6523 (SC)	20 ± 15µ Sec
T2	TPSS1 (SS)	R6557 (SC)	170 ± 20µ Sec



11.4. P.C.B. (Printed Circuit Board) exchange

11.4.1. Caution

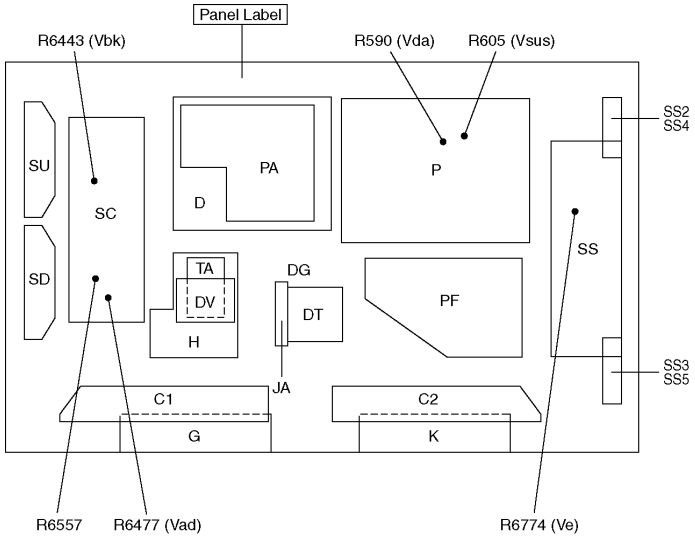
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

11.4.2. Quick adjustment after P.C.B. exchange

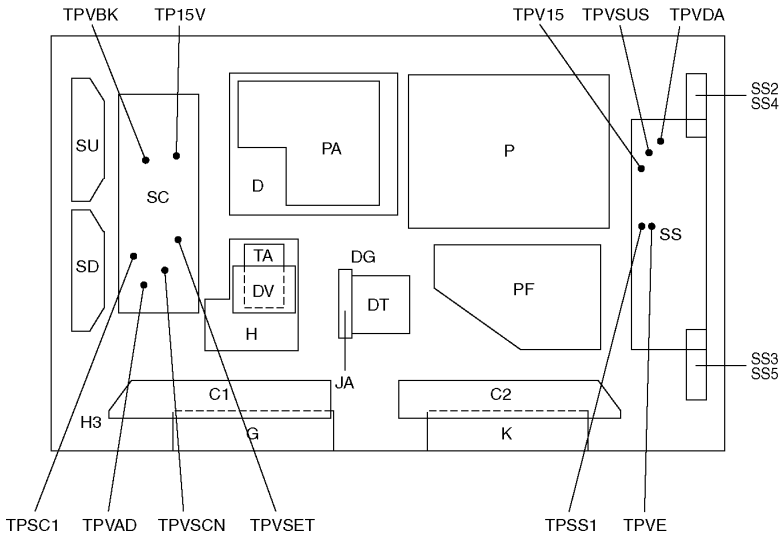
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 1V	R605 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R590 (P)	
SC Board	Vbk	TPVBK (SC)	155V ± 5V	R6443 (SC)	
	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	218V ± 6V	---	
	Vscn	TPVSCN (SC)	Vad + 118 ± 2V	---	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6774 (SS)	
D, DG Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

11.5. Adjustment Volume Location

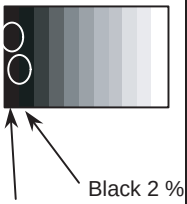
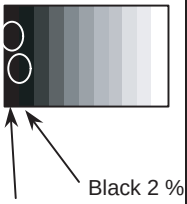


11.6. Test Point Location

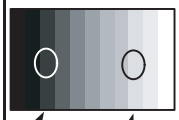


12 Adjustment

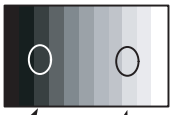
12.1. Pedestal setting

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RF Gray Scale Pattern  		Pic Mode: Standard Color Temp: **Cool** Aspect: 16:9	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright Chroma Control: Gun off RGB Sub Adjust: B Sub Bright Chroma Control: Gun off RGB Sub Adjust: R Sub Bright	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". Set R,G and B drive to " **F0** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright 1 to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright 1 to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright 1 to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	HD Gray Scale Pattern  		Pic Mode: Standard Color Temp: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to HD signal. 2) Repeat procedure 1) to 7) of Component input signal.

12.2. NTSC panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern  High light 75% Low light 15%	Color Analyzer	Pic Mode: Vivid Color Temp: **Cool** Aspect: 16:9 Picture: 63	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " E8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool / 0.276 / 0.276 Normal / 0.288 / 0.296 Warm / 0.313 / 0.329 Fig. -01
2			Pic Mode: Vivid Color Temp: **Normal** Aspect: 16:9 Picture: 63	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change Color Temp to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Pic Mode: Vivid Color Temp: **Warm** Aspect: 16:9 Picture: 63	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change Color Temp to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Pic Mode: Vivid Color Temp: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change Color Temp to "Cool". 2)Re-set Sub bright to "30"

12.3. HD panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD Gray Scale Pattern  High light 75% Low light 15%	Color Analyzer	Pic Mode: Vivid Color Temp: **Cool** Aspect: 16:9 Picture: 63	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " E8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. Color Temp. / x / y Cool / 0.276 / 0.276 Normal / 0.288 / 0.296 Warm / 0.313 / 0.329 Fig. -04
2			Pic Mode: Vivid Color Temp: **Normal** Aspect: 16:9 Picture: 63	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change Color Temp to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Pic Mode: Normal Color Temp: **Warm** Aspect: 16:9 Picture: 63	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change Color Temp to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Pic Mode: Vivid Color Temp: **Cool** Aspect: 16:9 Picture: 63	Picture Menu Sub Adjust Sub Bright	1) Change Color Temp to "Cool". 2)Re-set Sub bright to "30"

12.4. Sub brightness setting

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RF Gray Scale Pattern  		Pic Mode: Vivid Aspect: 16:9 Picture: 30	PANEL W/B All cut off	** Adjust at the dark room. 1) Set Color Temp to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.
	HD Gray Scale Pattern				8) Change to HD signal. 9) Copy PAL All cut off data to HD mode.

13 Hotel mode

1. Purpose

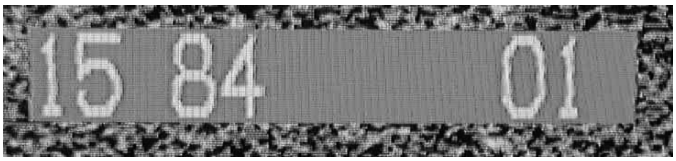
   Restrict a function for hotels.

2. Access command

   - Enter to the Service Mode.



   - Press MUTE button on remote control. Hold few seconds.
   - Press the ch “UP” or “Down” button and Vol. “UP” or “Down” button to Set the data of EEPROM(ADDRESS 1584) to 01.

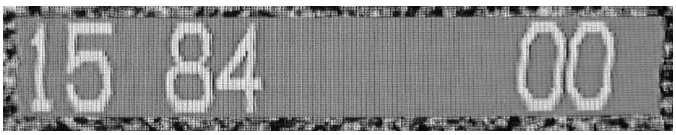


   Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.

   It can be made Hotel mode.

3. Exit command

   - First, set the data of EEPROM (ADDRESS 1584) to 00.



   Next, Push the Power switch(button) off/on the set(the remote control) to turn the set off/on.

   Then, it is no longer hotel mode.

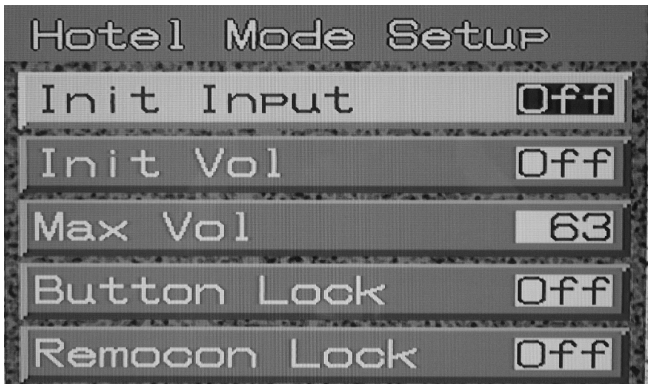
4. Access command to the Hotel mode setup menu

   - <Prerequisite> : It is conditions that the data of EEPROM(ADDRESS 1584) is 01.

   In order to display the Hotel mode setup menu, please enter the following command (within 2 second).

   [TV] : Vol. “Down” + [REMOTE] : TV/VIDEO (3 times)

   Then, the Hotel mode setup menu is displayed.



5. Explain the Hotel mode setup menu

   CAUTION

   This setup is not valid, unless data of EEPROM (ADDRESS 1584) will be 01, even if each settings were done.

item	Function
INITIAL INPUT	Select input signal modes. Set this signal, each time power is switched on. <Selection> : Off/TV/COMP1/COMP2/DIGITAL/VIDEO1/VIDEO2/VIDEO3/PC/JPEG ● Off: give priority to a last memory. ● PC: selectable with VGA option
INITIAL VOL LEVEL	Adjust output Volume. Set this volume, each time power is switched on. If the value of InitVol is changed, volume will change. However, priority is given to a last memory when InitVol is Off. When "InitVol" is larger than "MaxVol", make "InitVol" and "MaxVol" the same. <Selection/Range> : Off/0 to 63 ● Off: give priority to a last memory
MAXIMUM VOL LEVEL	Adjust maximum volume. Set this max. volume, each time power is switched on. When "MaxVol" is smaller than "InitVol", make "MaxVol" and "InitVol" the same, if "InitVol" is not Off. <Range> : 0 to 63
INITIAL CH	Select program number. Set this program number, each time power is switched on. <Selection> : Off/0 to C125 ● Off: give priority to a last memory
BUTTON LOCK	Select local key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUPMENU/All ● Off: altogether valid ● Action: restrict ACTION-key selection ● All: altogether invalid.
REMOCON LOCK	Select remote control key conditions. Set this condition, each time power is switched on. <Selection> : Off/SETUP/MENU ● Off: altogether valid ● Action: menu is invalid

15 Block and Schematic Diagrams

15.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

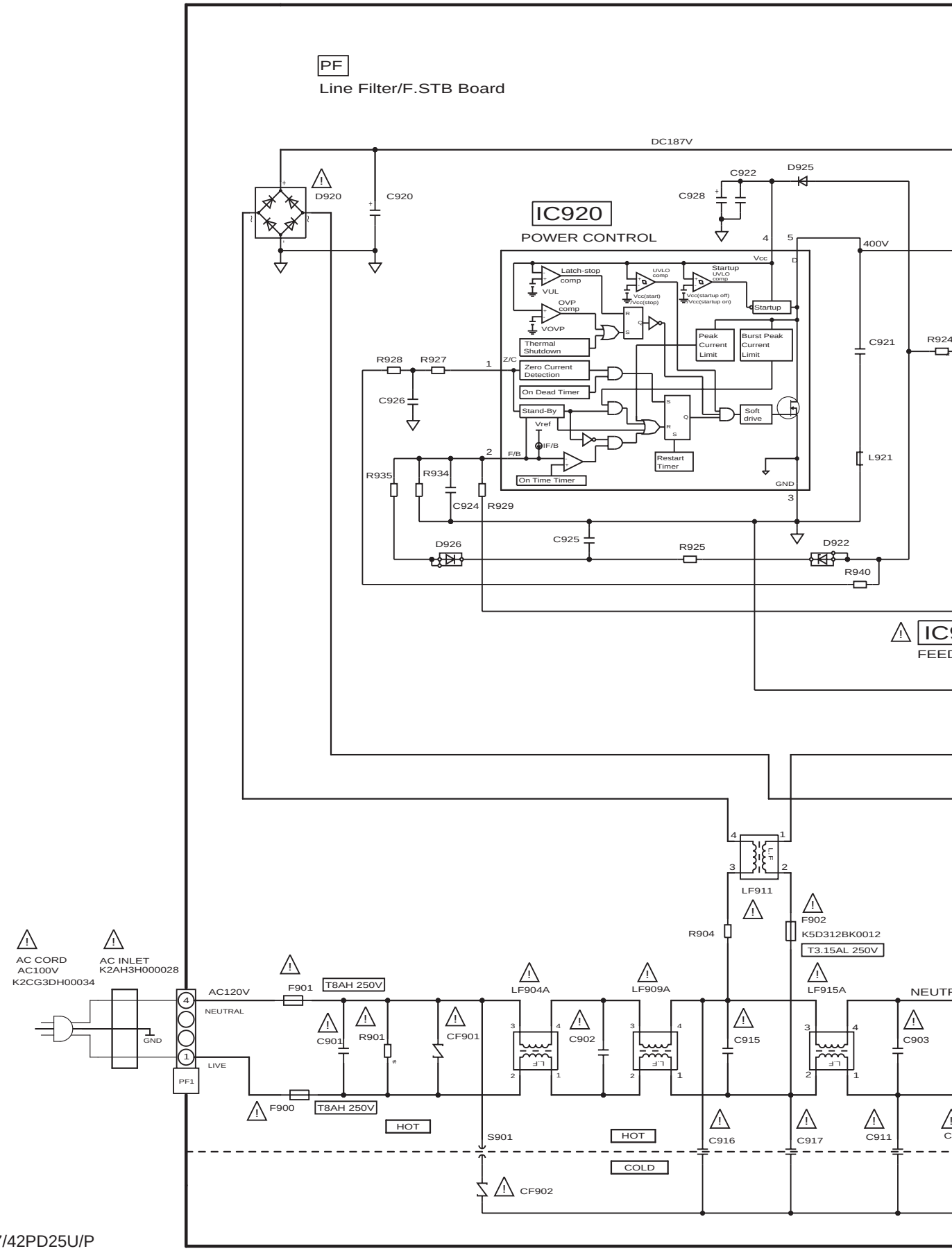
Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC120V, 50/60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

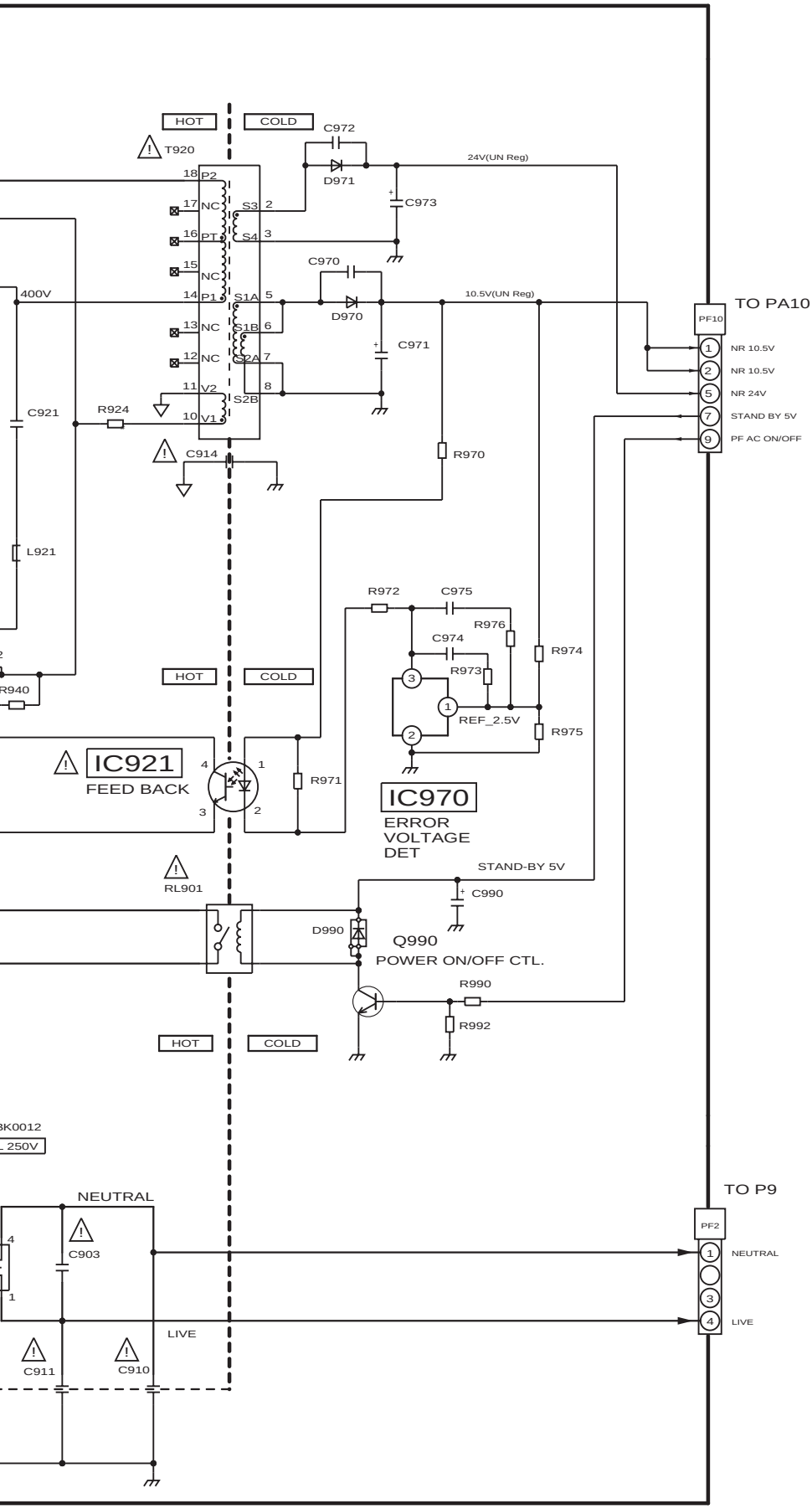
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

15.2. PF-Board Block Diagram

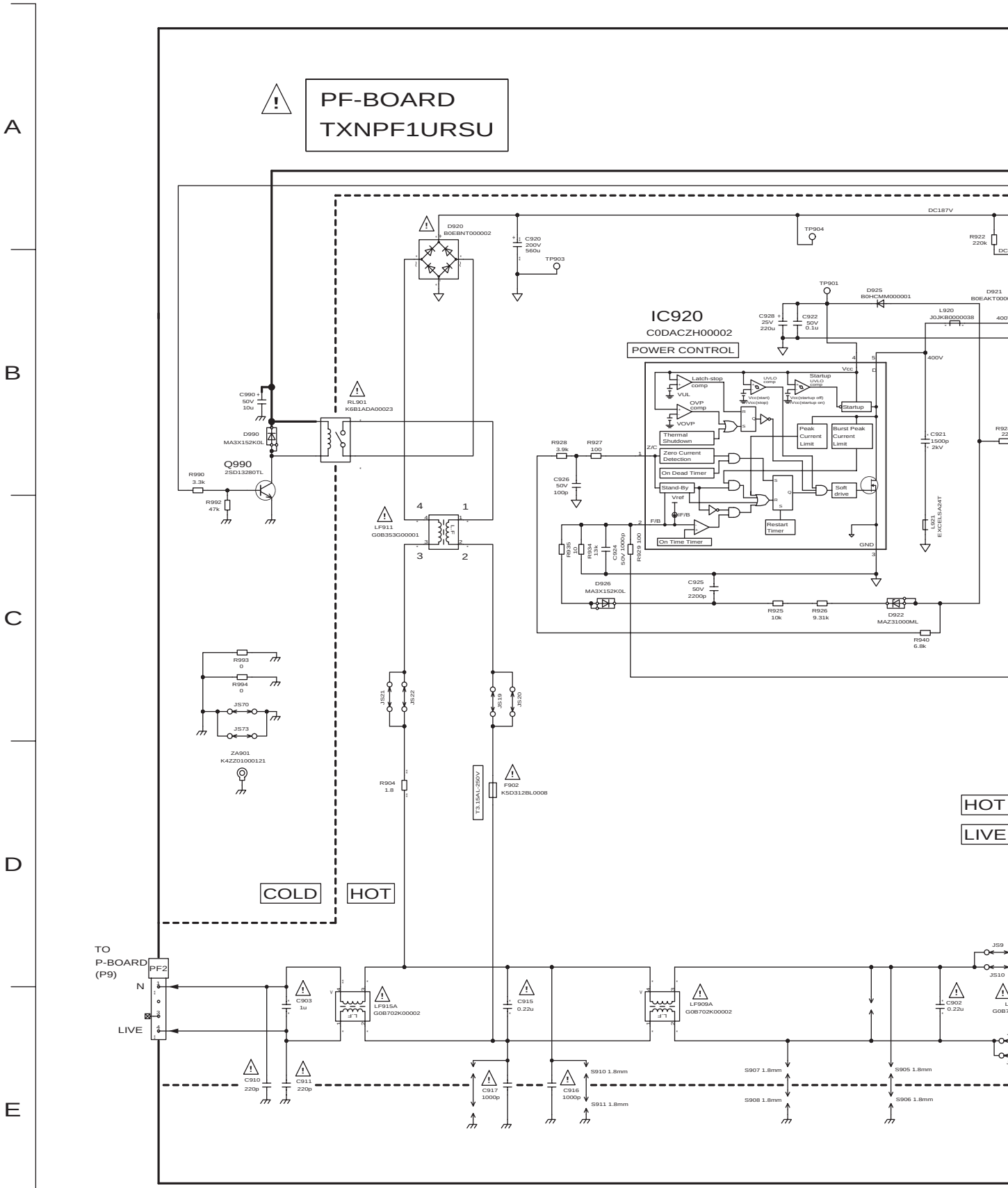


TH-37/42PD25U/P
PF-Board Block Diagram

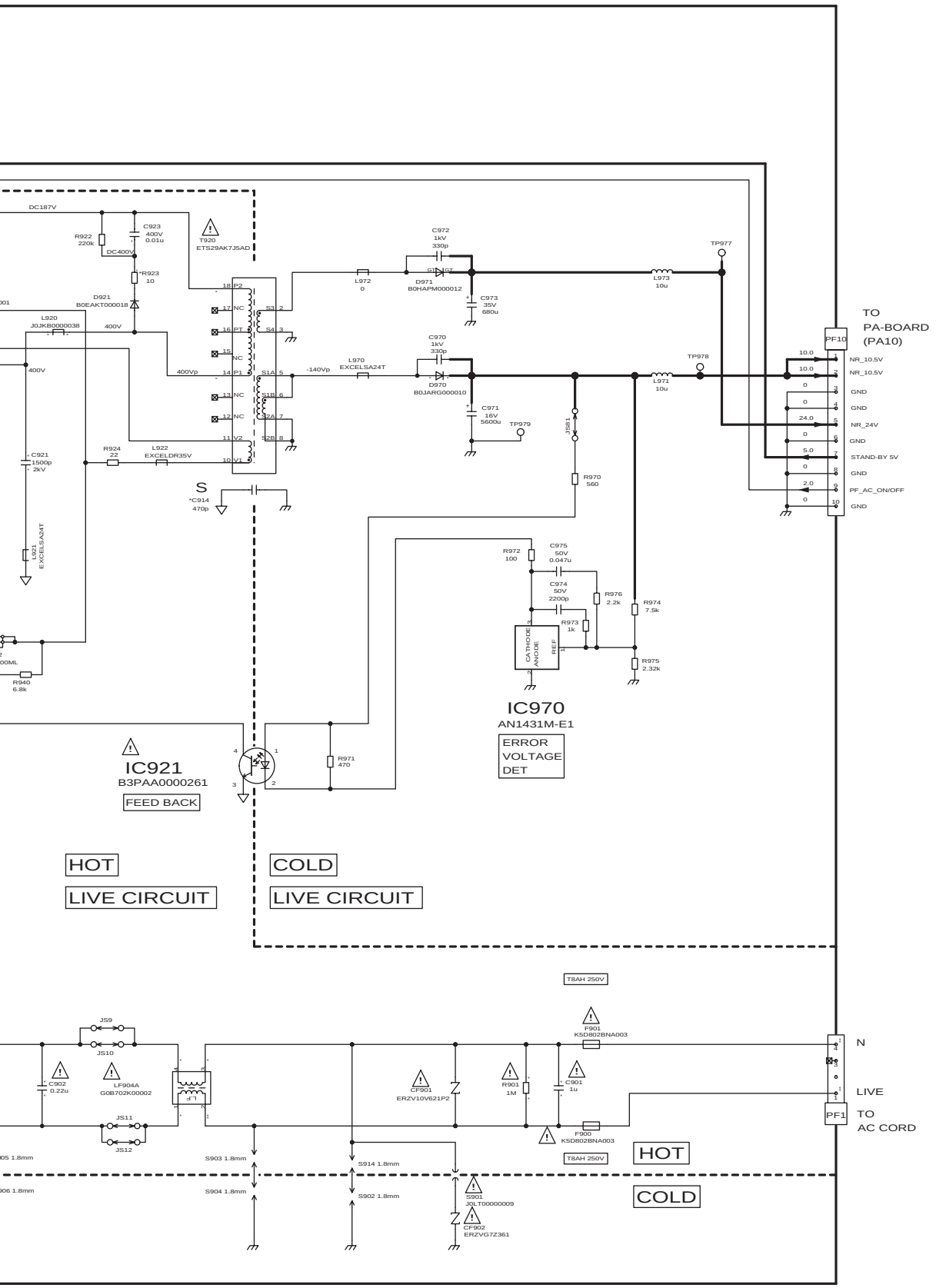


TH-37/42PD25U/P
PF-Board Block Diagram

15.3. PF-Board Schematic Diagram



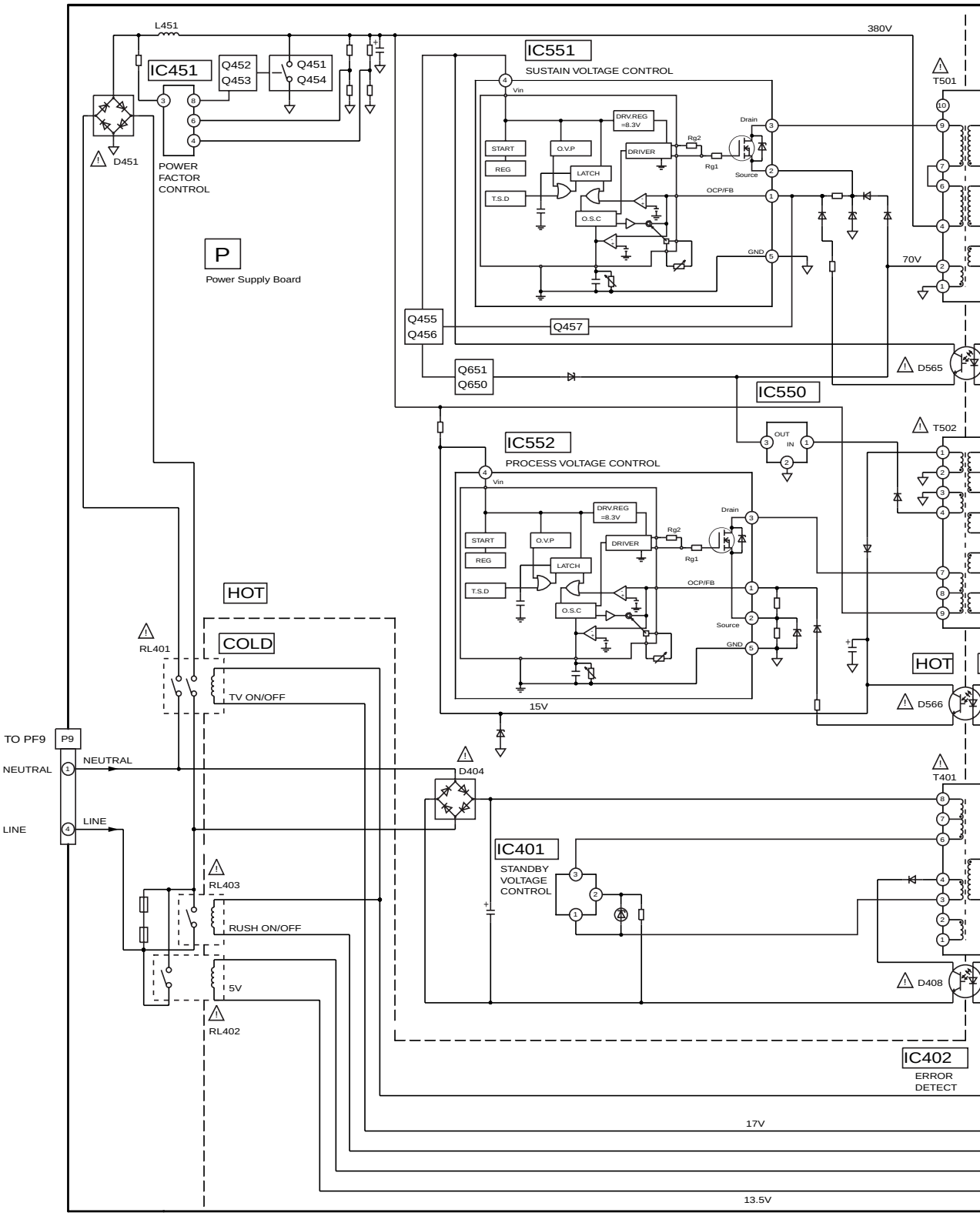
TH-37/42PD25U/P
PF-Board Schematic Diagram



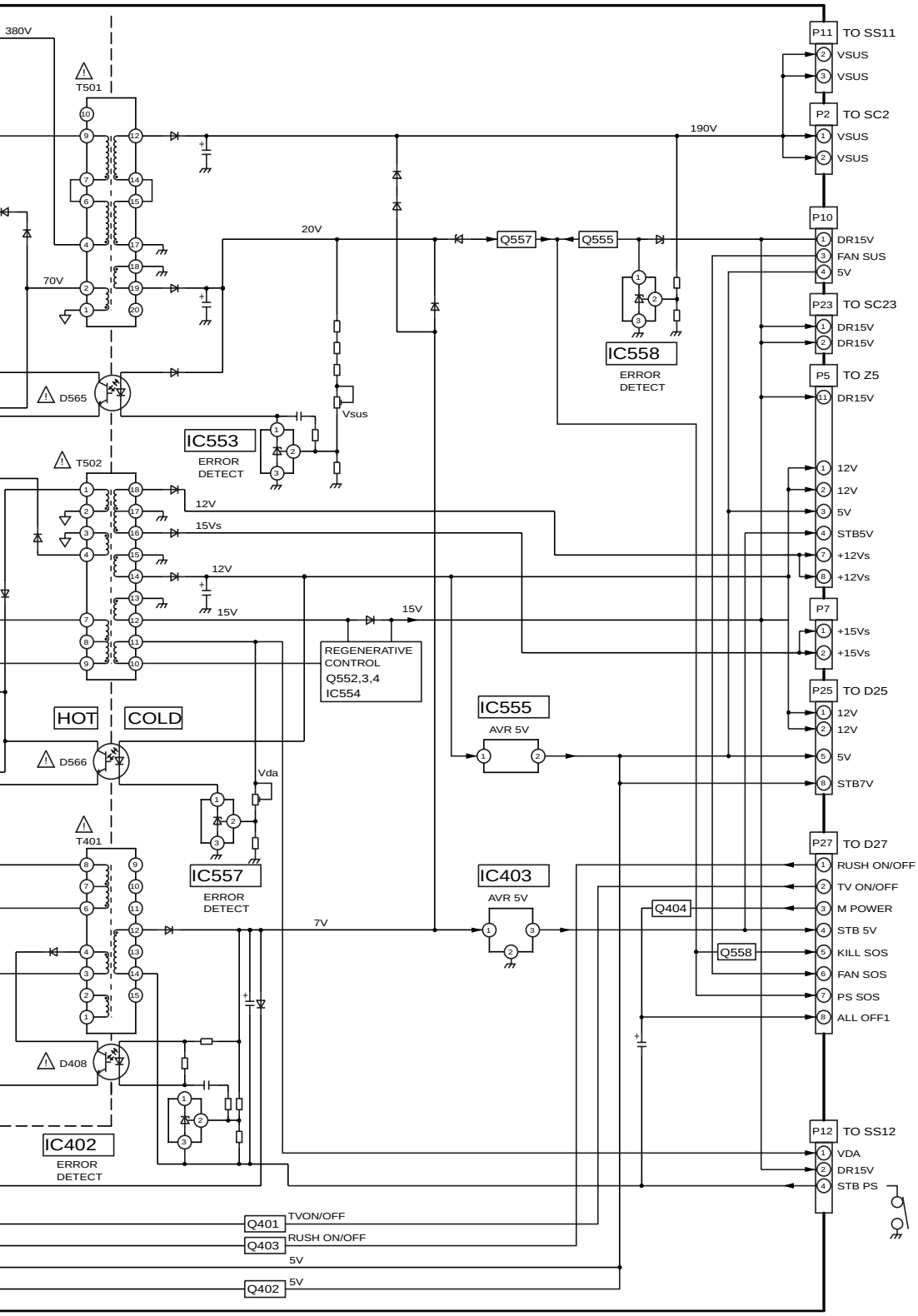
TH-37/42PD25U/P
PF-Board Schematic Diagram

5 6 7 8

15.4. P-Board Block Diagram

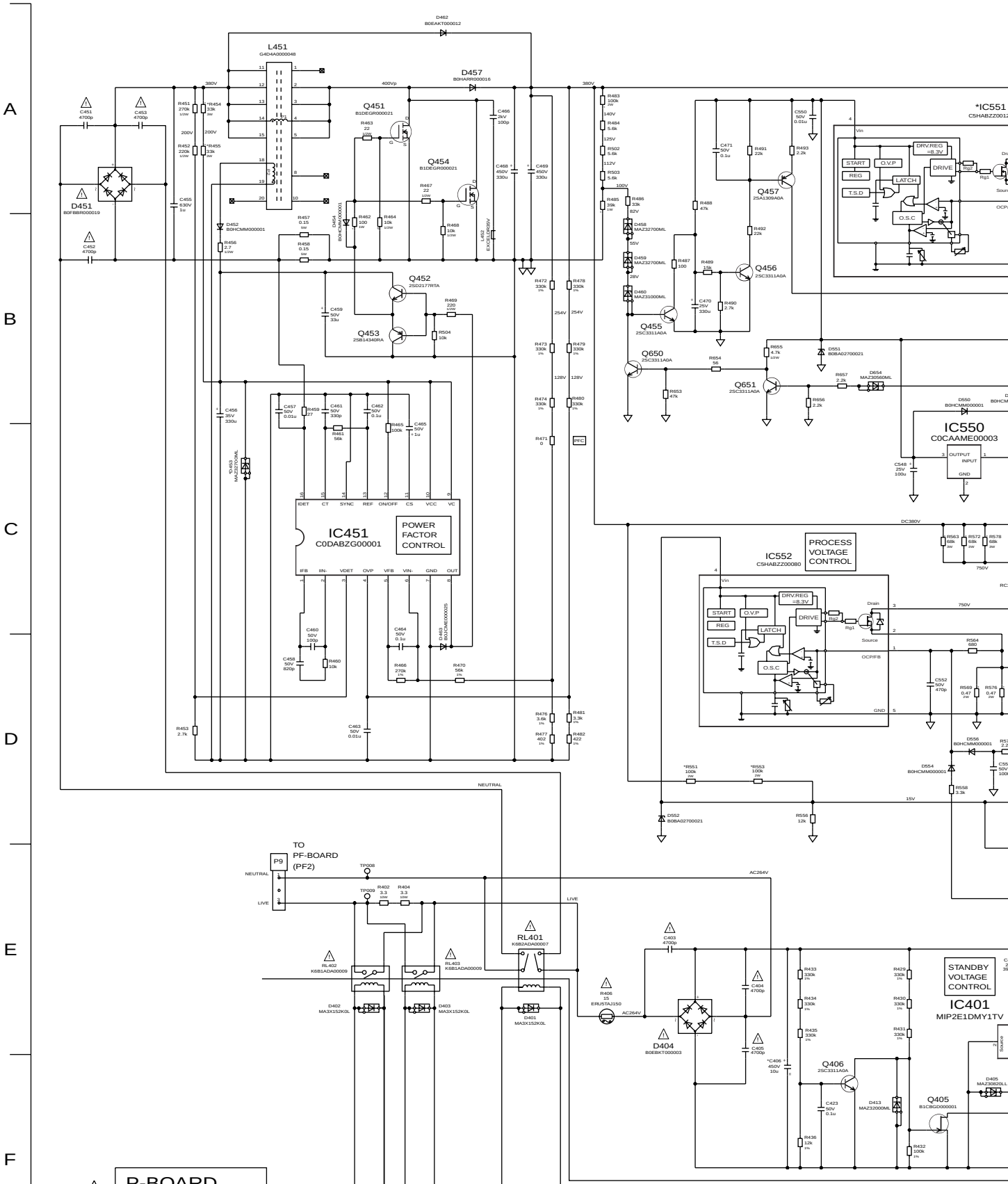


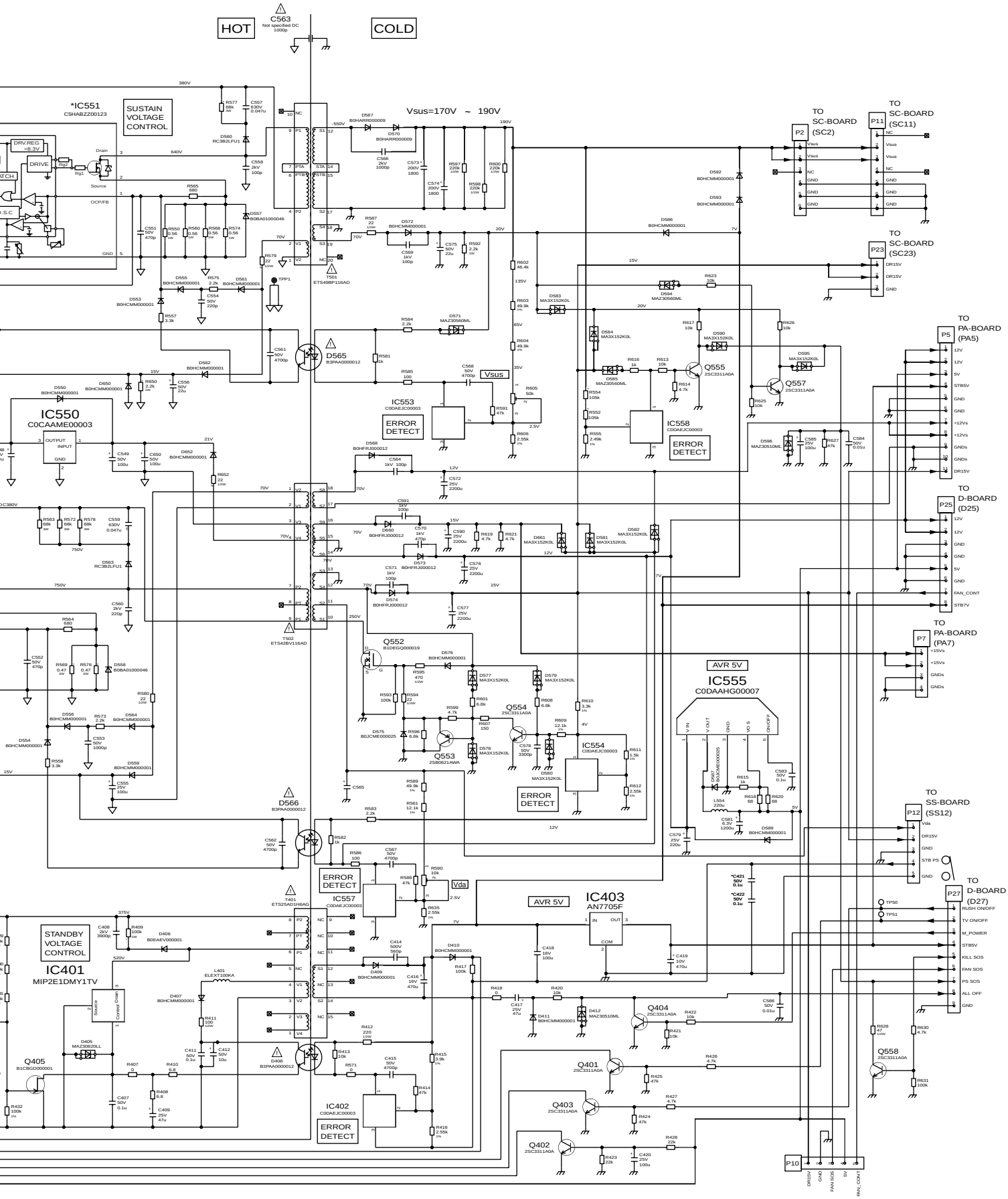
TH-37/42PD25U/P
P-Board Block Diagram



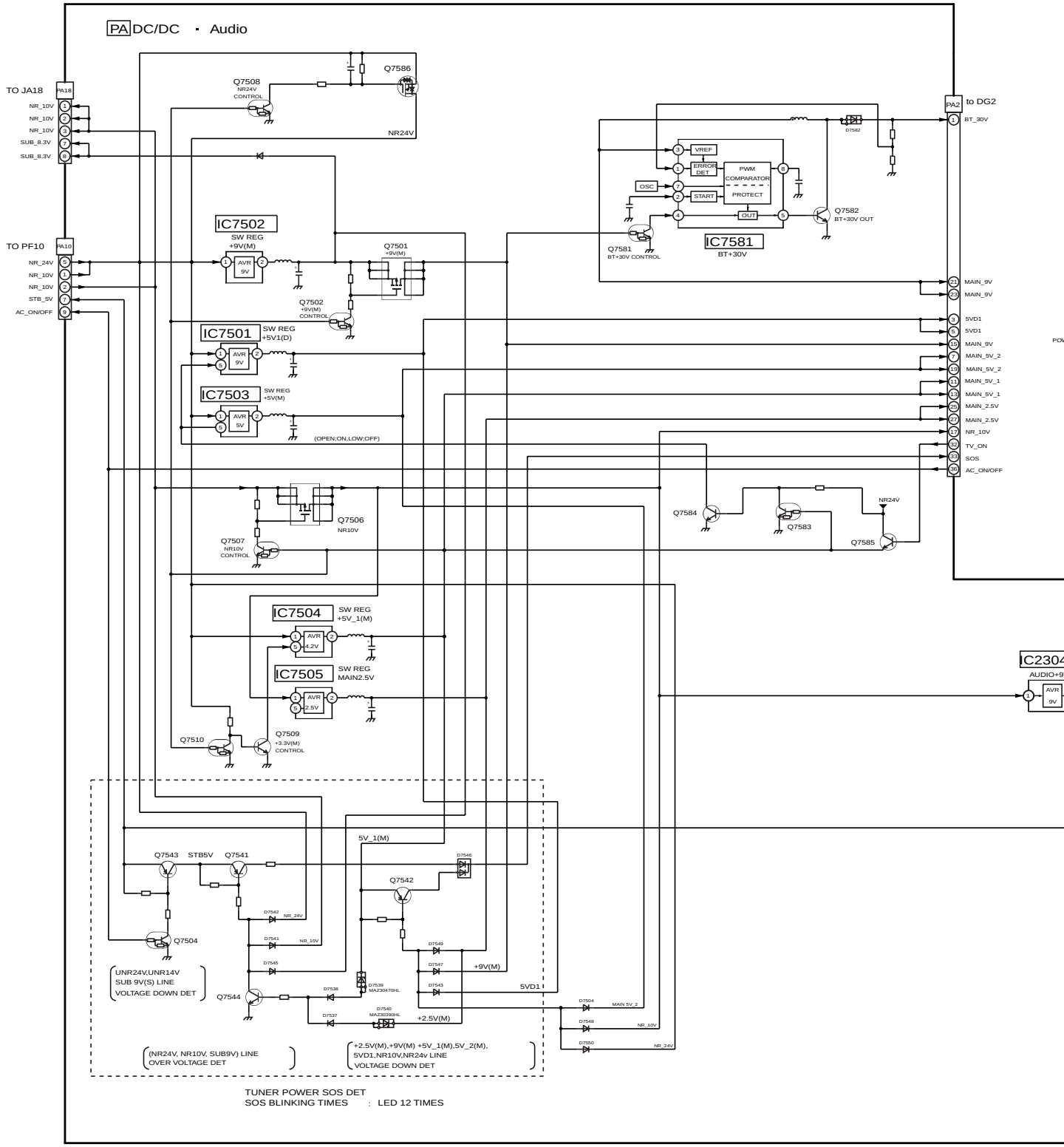
TH-37/42PD25U/P
P-Board Block Diagram

15.5. P-Board Schematic Diagram

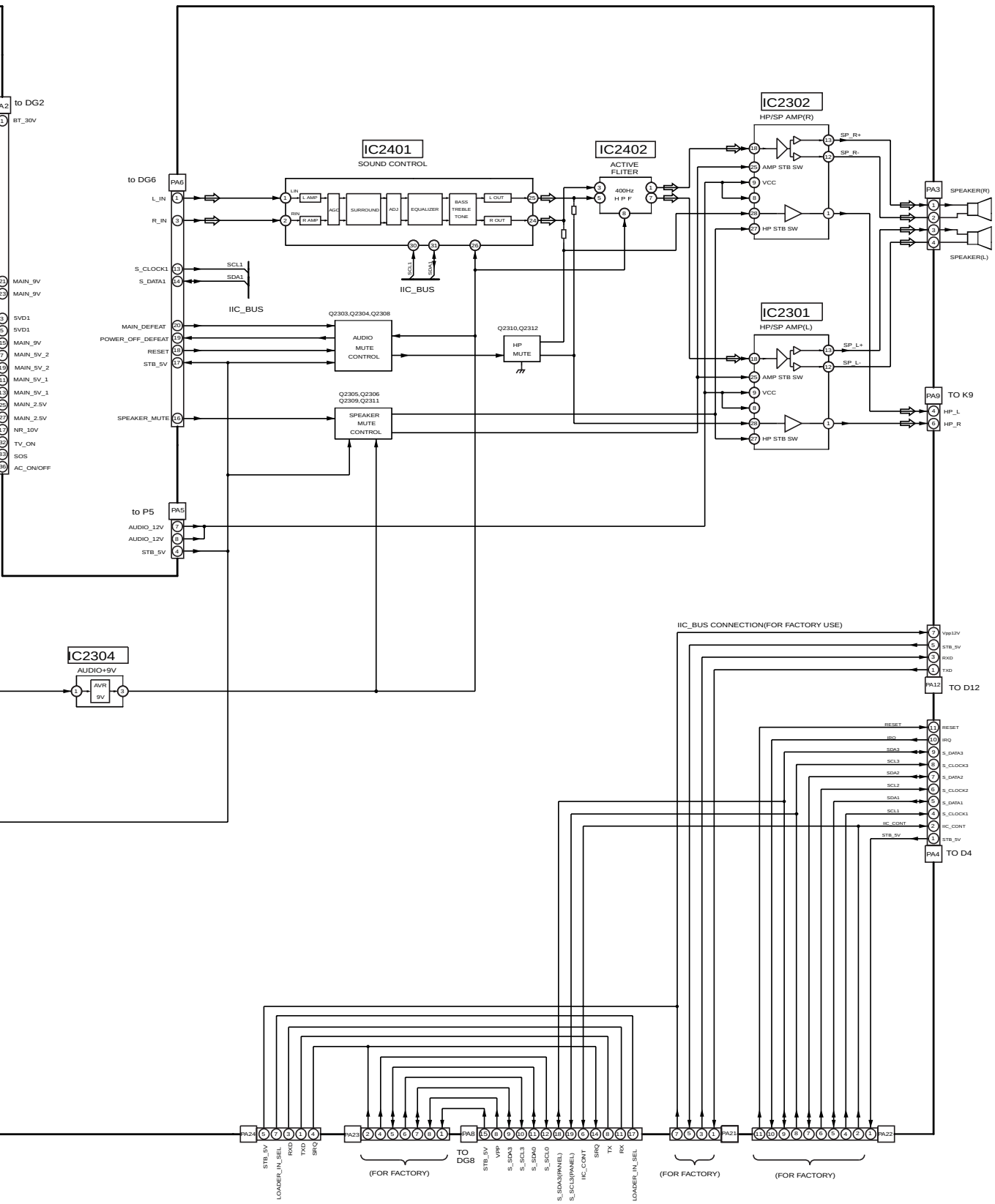



HOT
COLD
C563
Not specified DC 1000p
*IC551
C5HABZZ00123
SUSTAIN VOLTAGE CONTROL
DRV.REG =8.3V
DRIVE
Drain
Source
OCP/FB
GND
Vsus=170V ~ 190V
TO SC-BOARD (SC2)
TO SC-BOARD (SC11)
TO SC-BOARD (SC23)
TO PA-BOARD (PA5)
TO D-BOARD (D25)
TO PA-BOARD (PA7)
TO SS-BOARD (SS12)
TO D-BOARD (D27)
IC550
C0CAAME00003
IC553
C0DAEJC00003
ERROR DETECT
IC558
C0DAEJC00003
IC555
C0DAAHG00007
IC554
C0DAEJC00003
IC557
C0DAEJC00003
IC402
C0DAEJC00003
IC403
AN7705F
AVR 5V
STANDBY VOLTAGE CONTROL
IC401
MIP2E1DMY1TV
Q552
Q554
Q553
Q555
Q557
Q558
Q401
Q402
Q403
Q404
Q405
D565
D566
TH-37/42PD25U/P P-Board Schematic Diagram
5
6
7
8
9
75

15.6. PA-Board Block Diagram

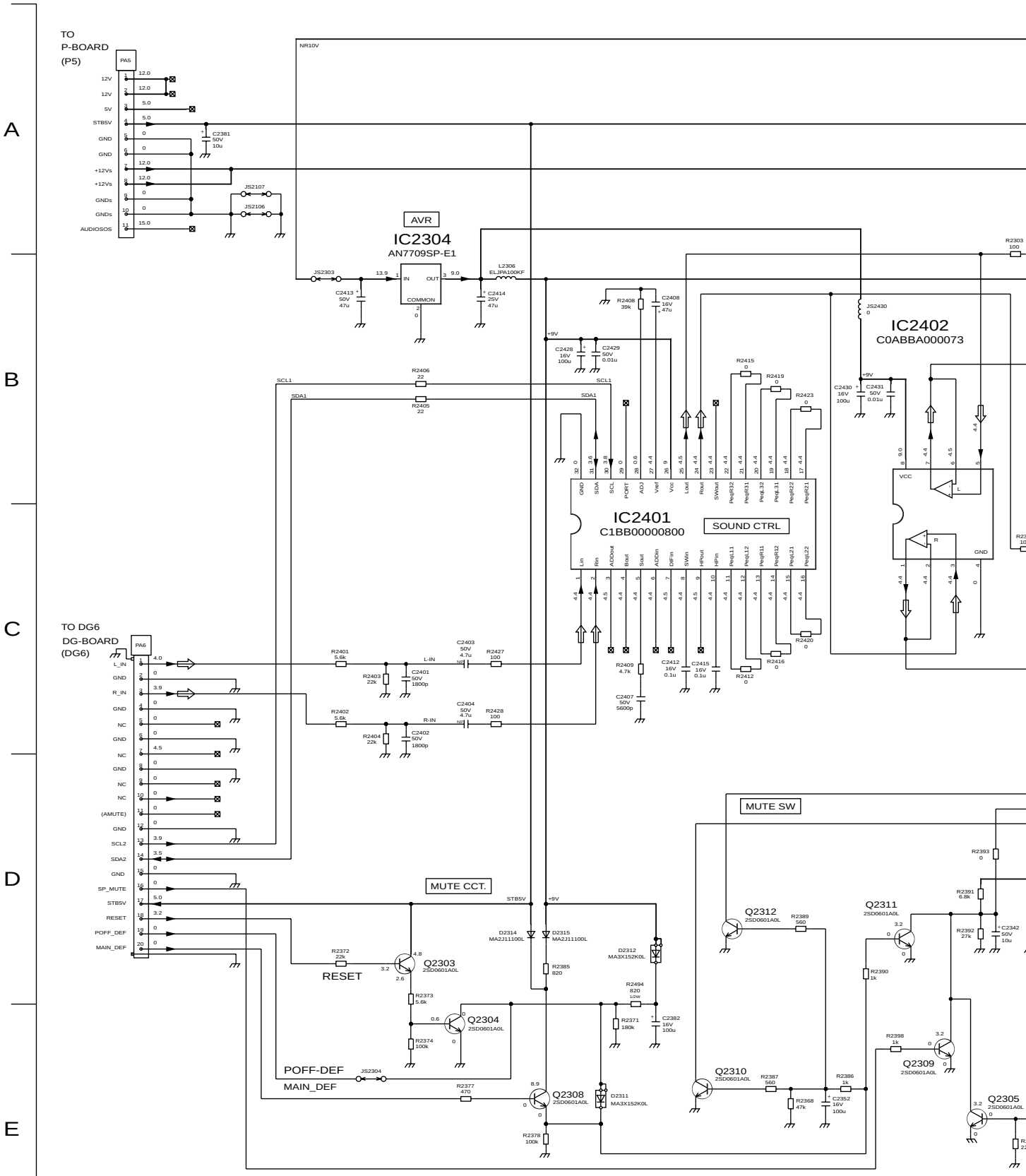


TH-37/42PD25U/P
PA-Board Block Diagram

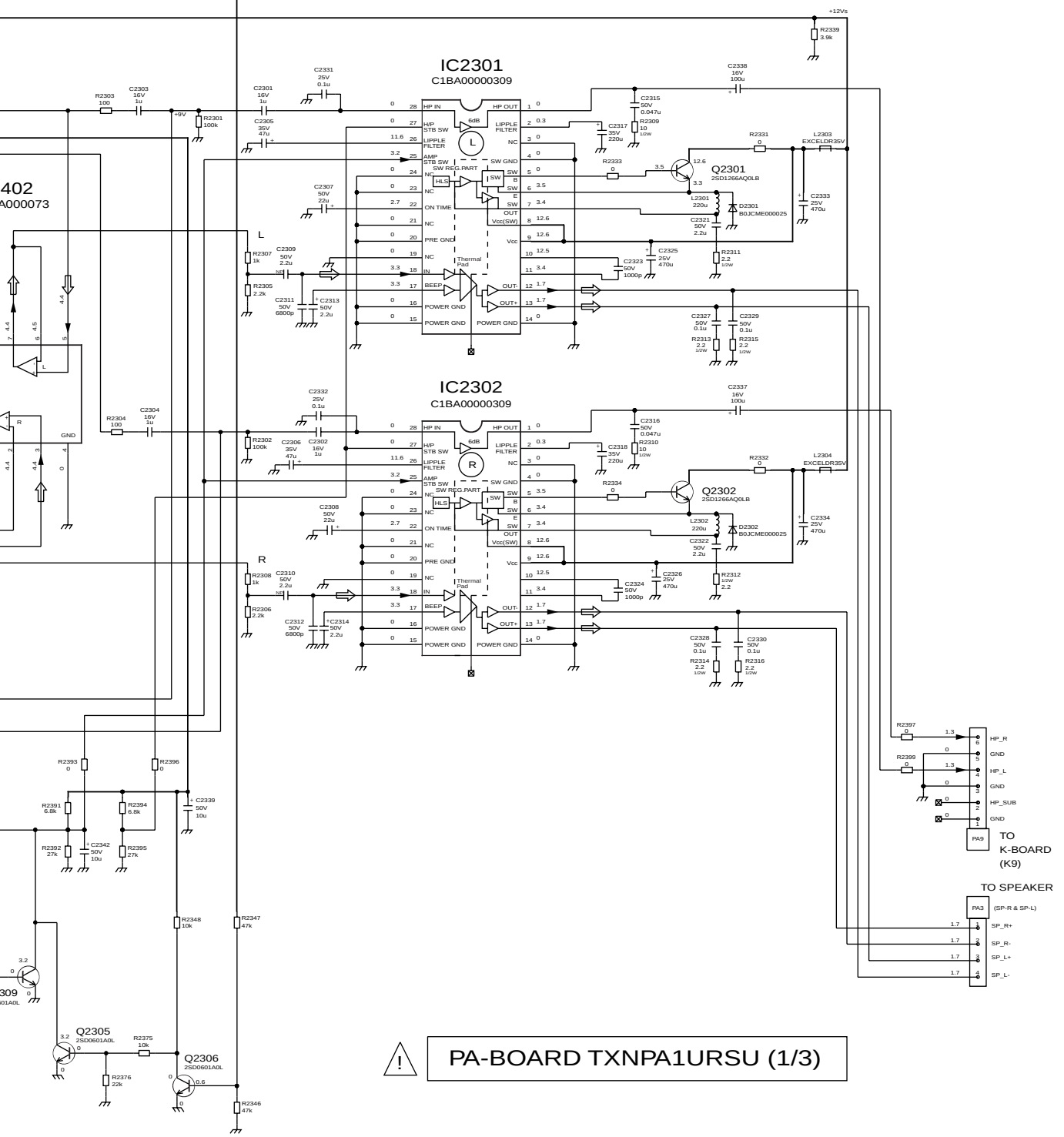


TH-37/42PD25U/P
PA-Board Block Diagram

15.7. PA-Board (1 of 3) Schematic Diagram



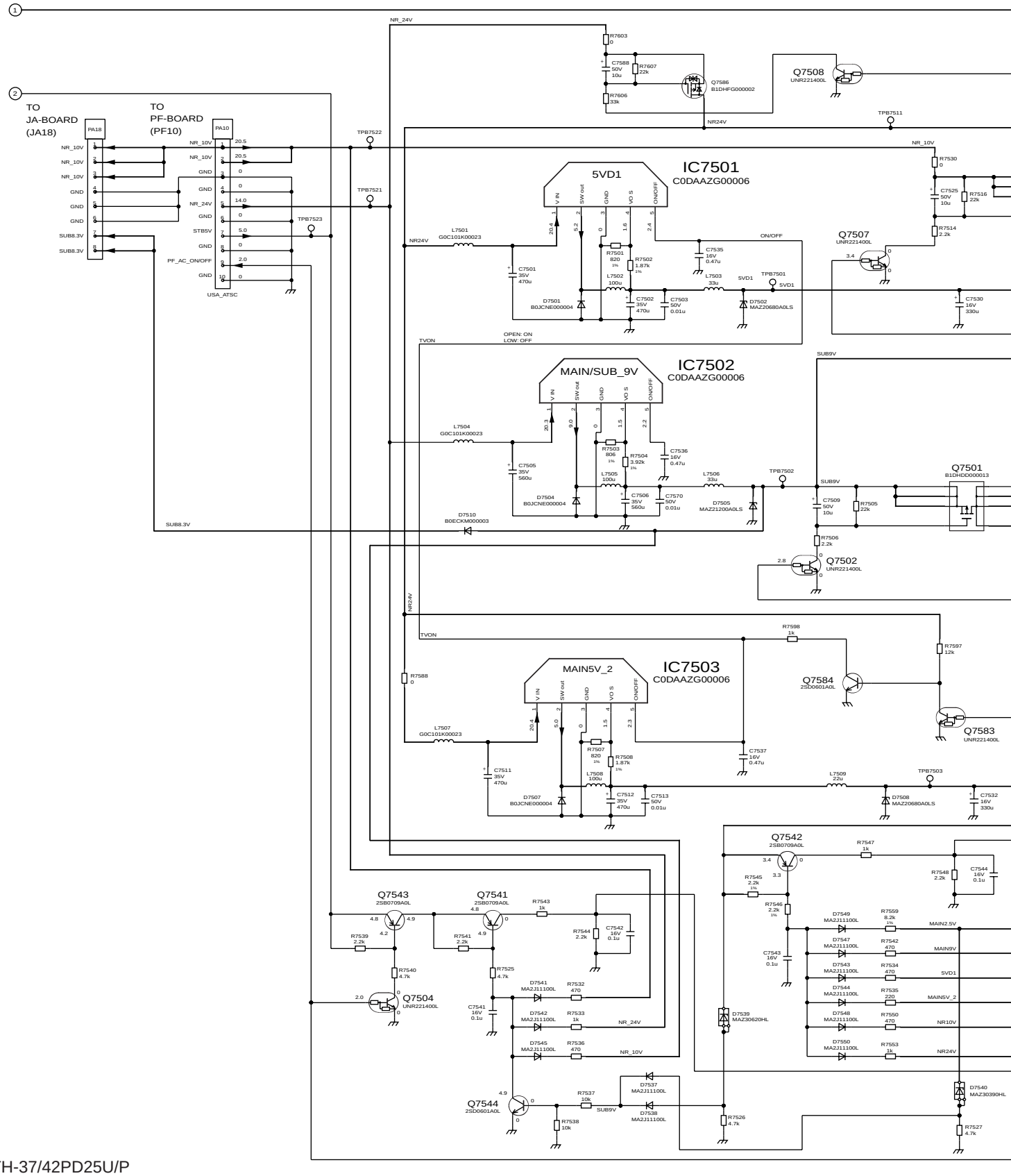
TH-37/42PD25U/P
PA-Board (1 of 3) Schematic Diagram



PA-BOARD TXNPA1URSU (1/3)

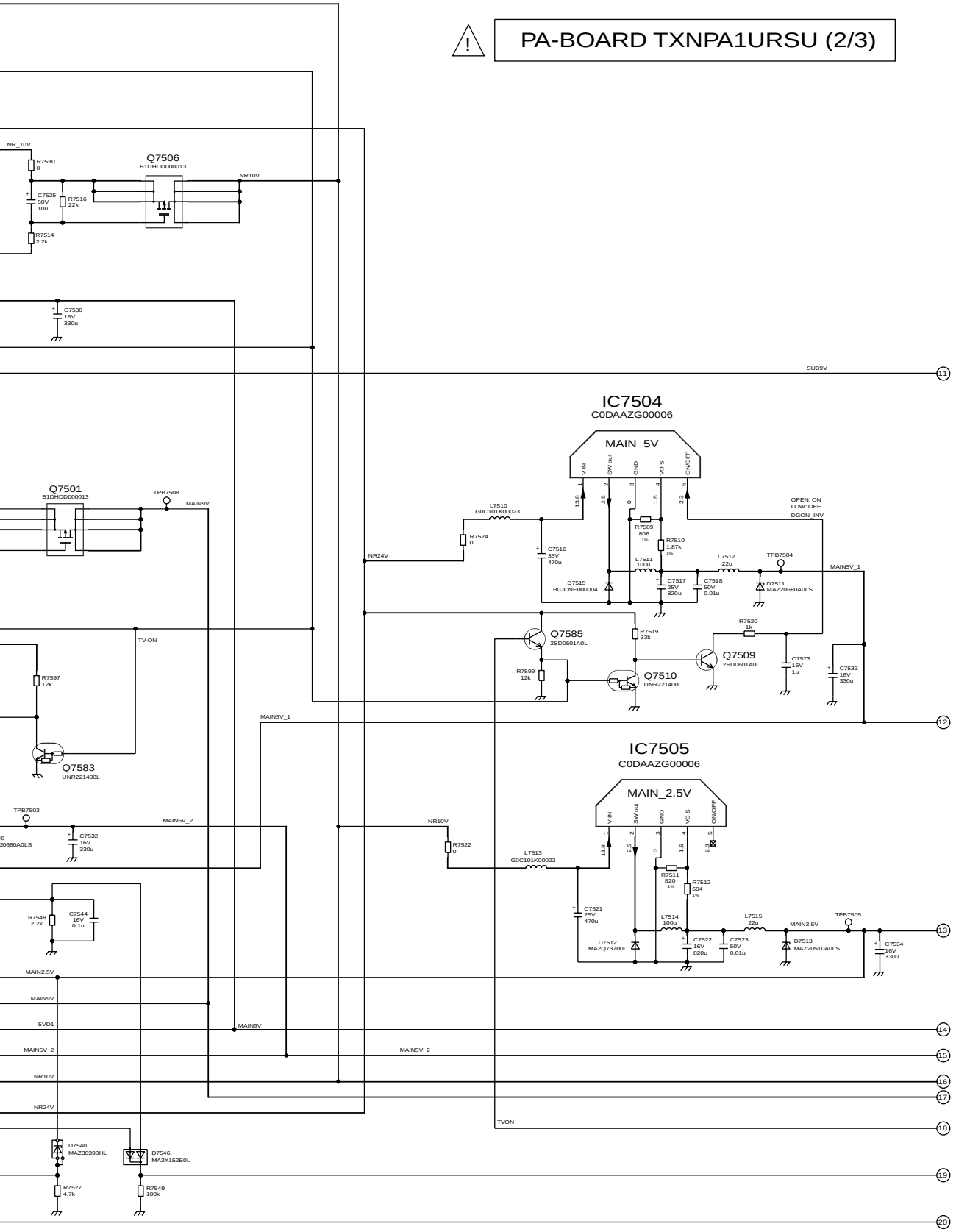
TH-37/42PD25U/P
PA-Board (1 of 3) Schematic Diagram

15.8. PA-Board (2 of 3) Schematic Diagram



TH-37/42PD25U/P
PA-Board (2 of 3) Schematic Diagram

PA-BOARD TXNPA1URSU (2/3)

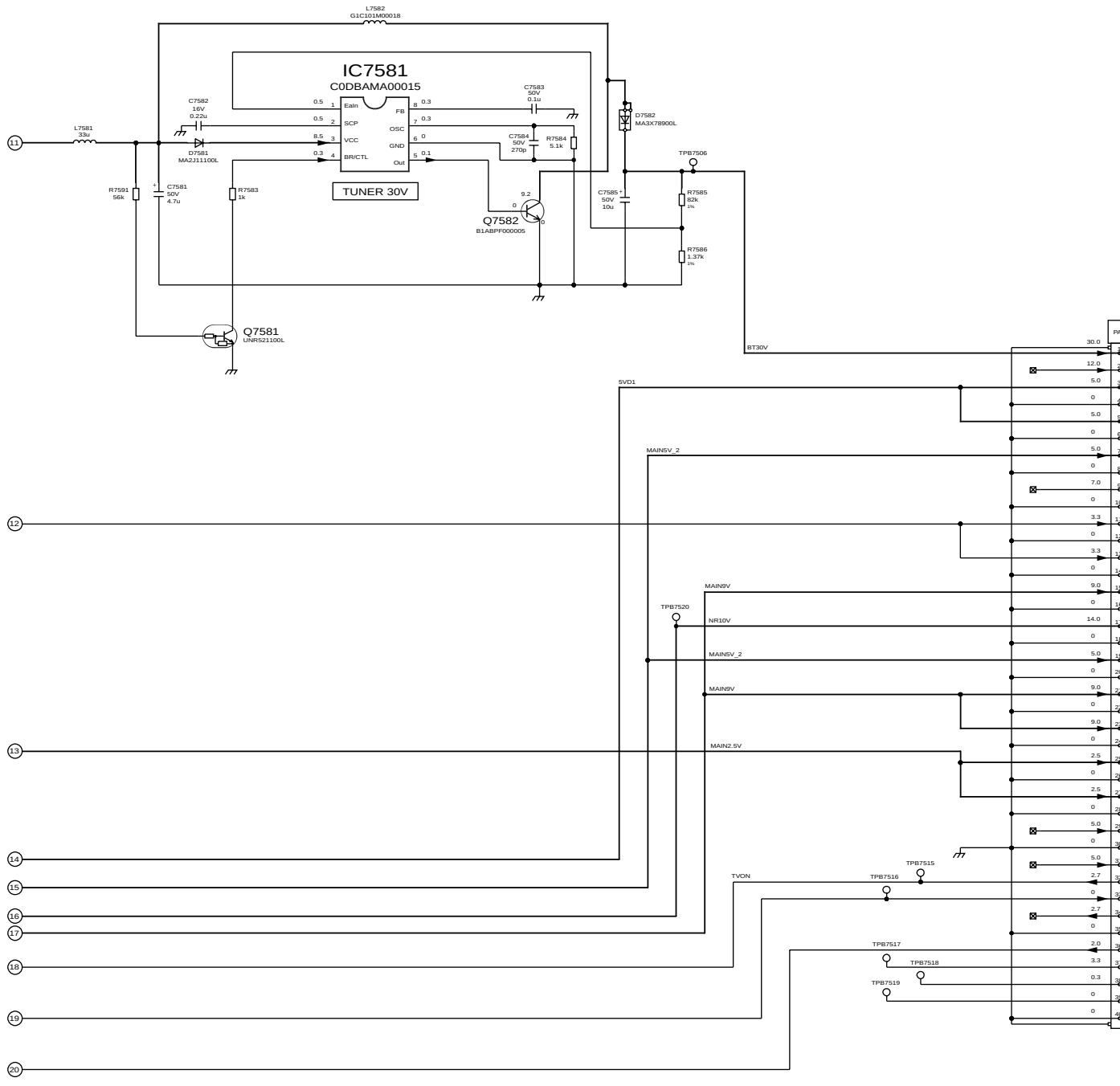


TH-37/42PD25U/P PA-Board (2 of 3) Schematic Diagram

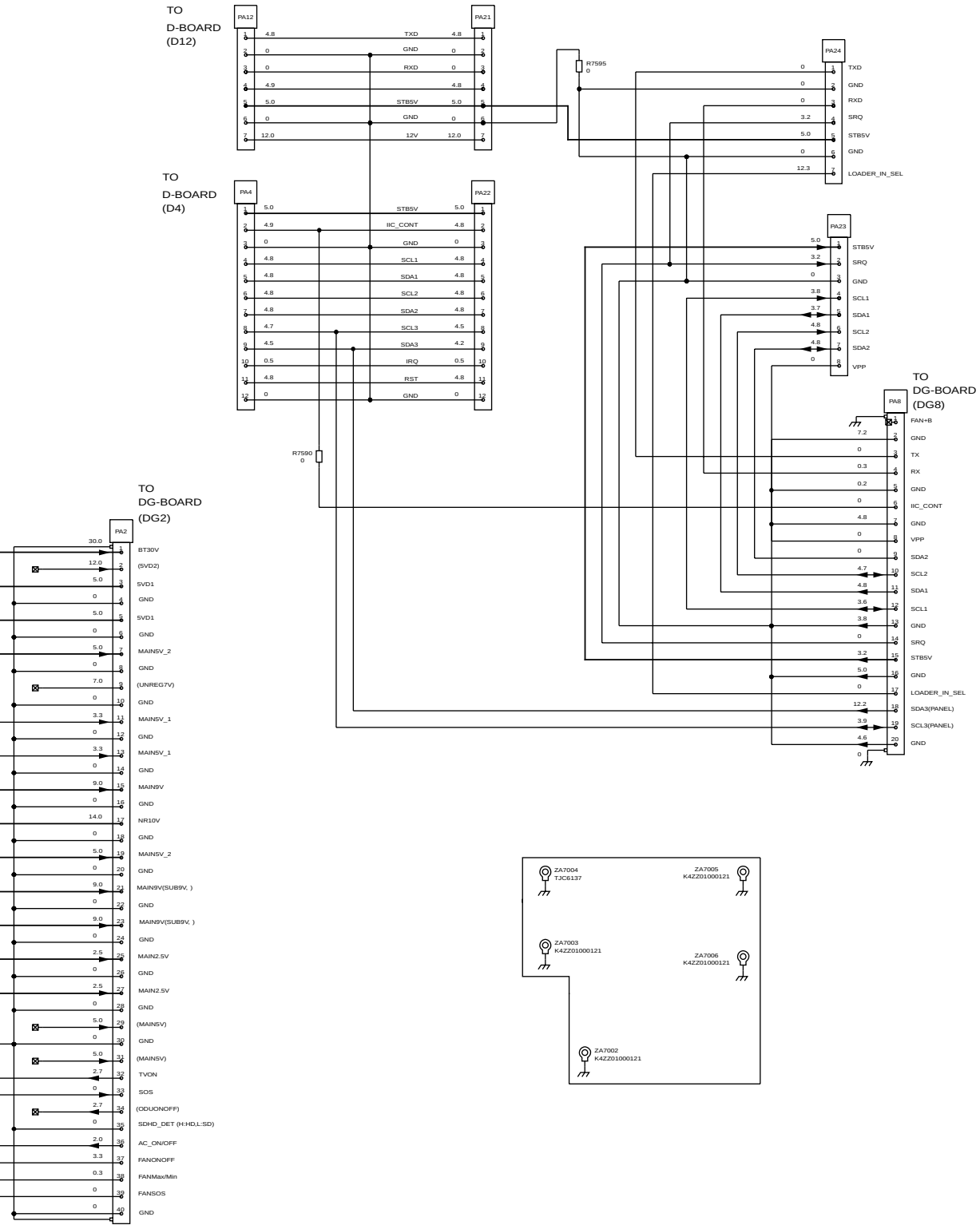
12 | 13 | 14 | 15

15.9. PA-Board (3 of 3) Schematic Diagram

PA-BOARD TXNPA1URSU (3/3)



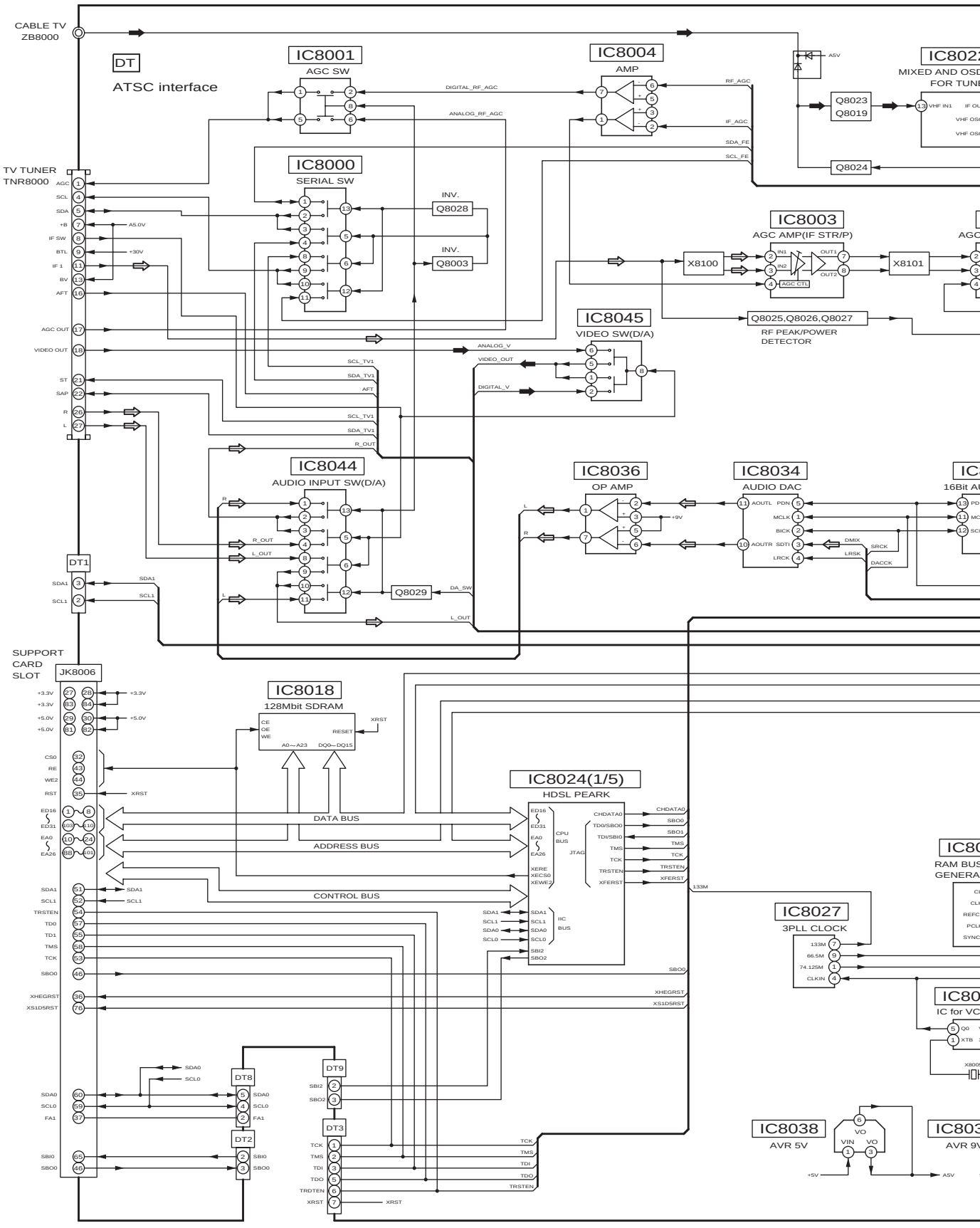
TH-37/42PD25U/P PA-Board (3 of 3) Schematic Diagram



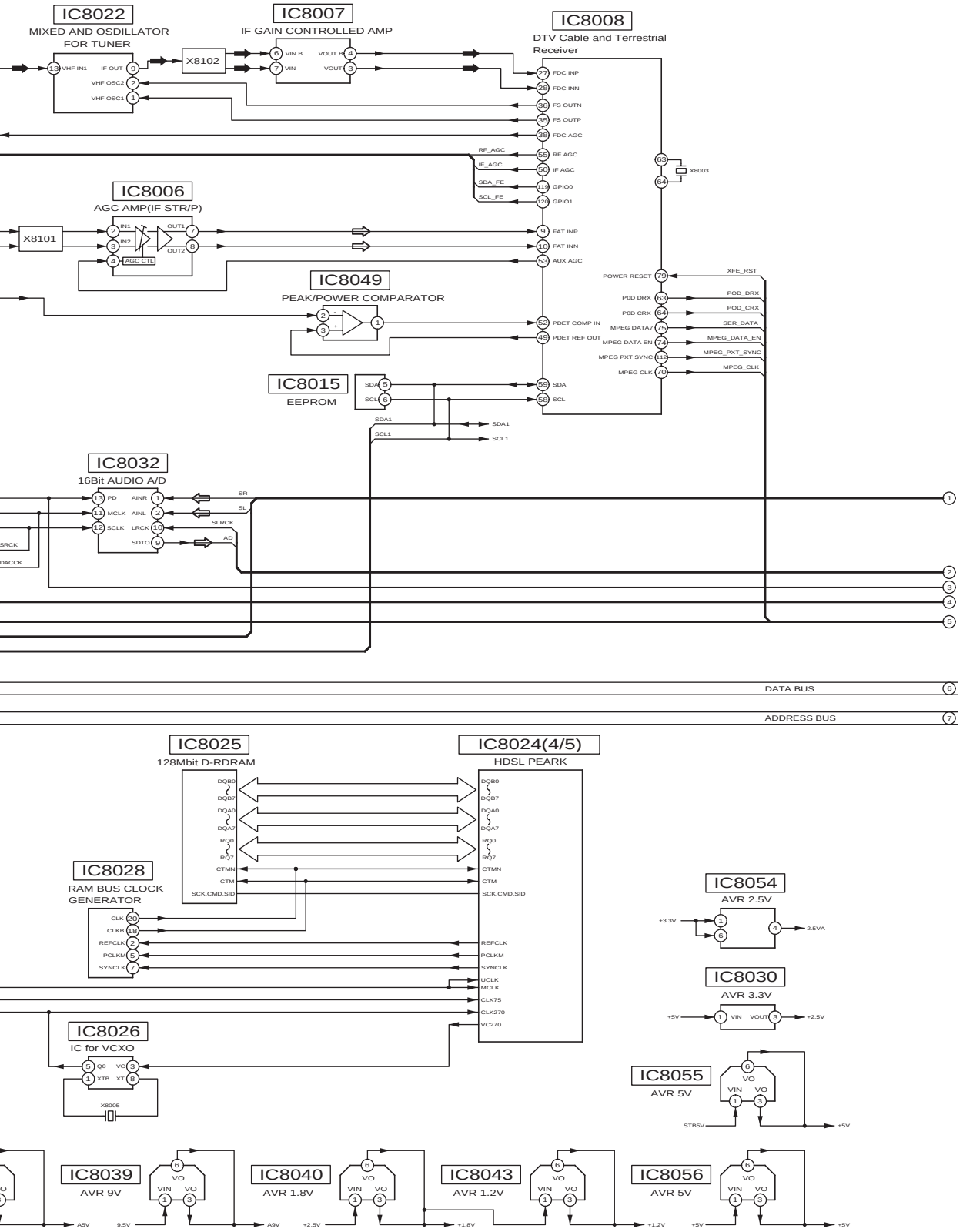
TH-37/42PD25U/P
PA-Board (3 of 3) Schematic Diagram

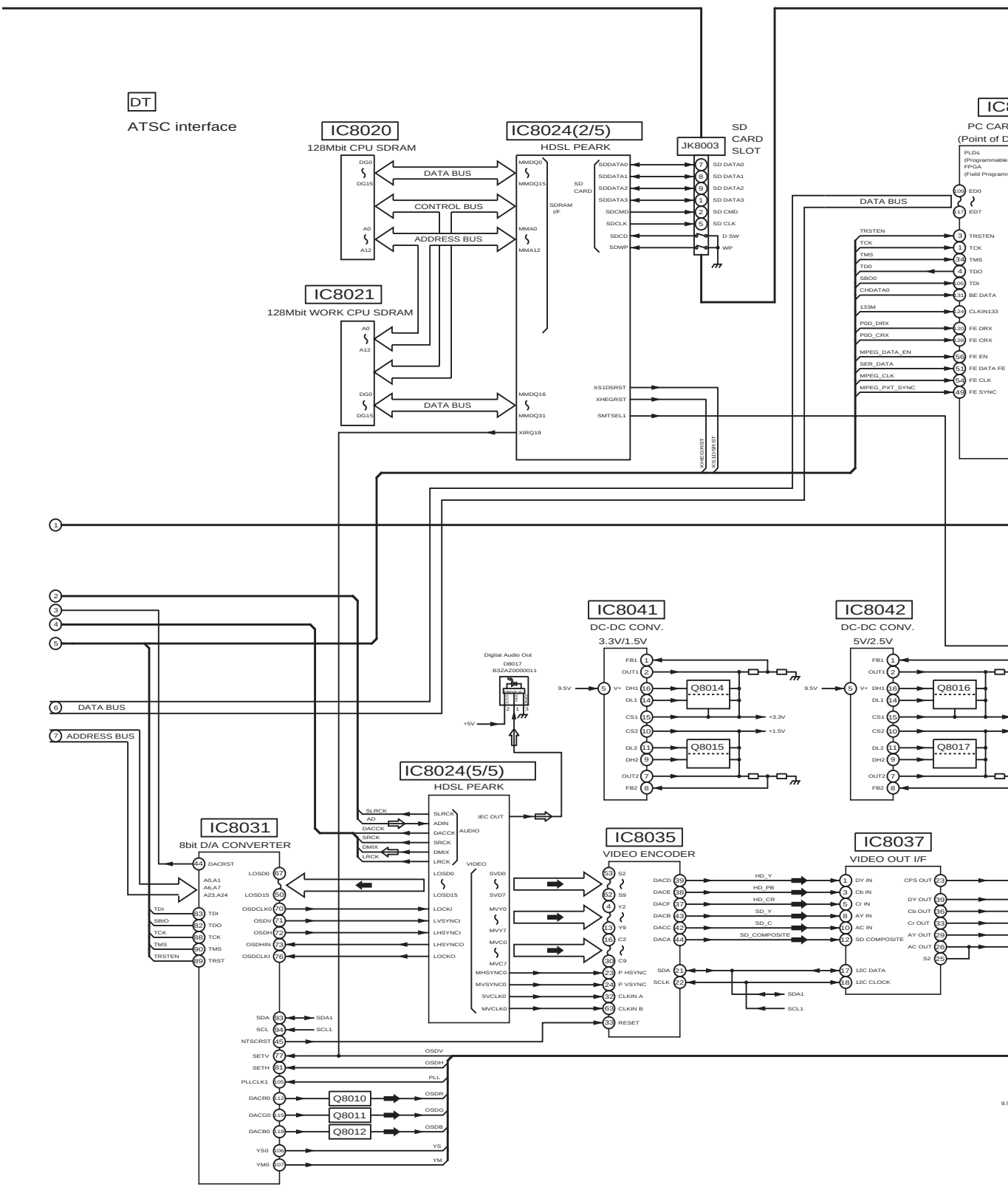
19	20	21	22	23

15.10. DT and JA-Board Block Diagram

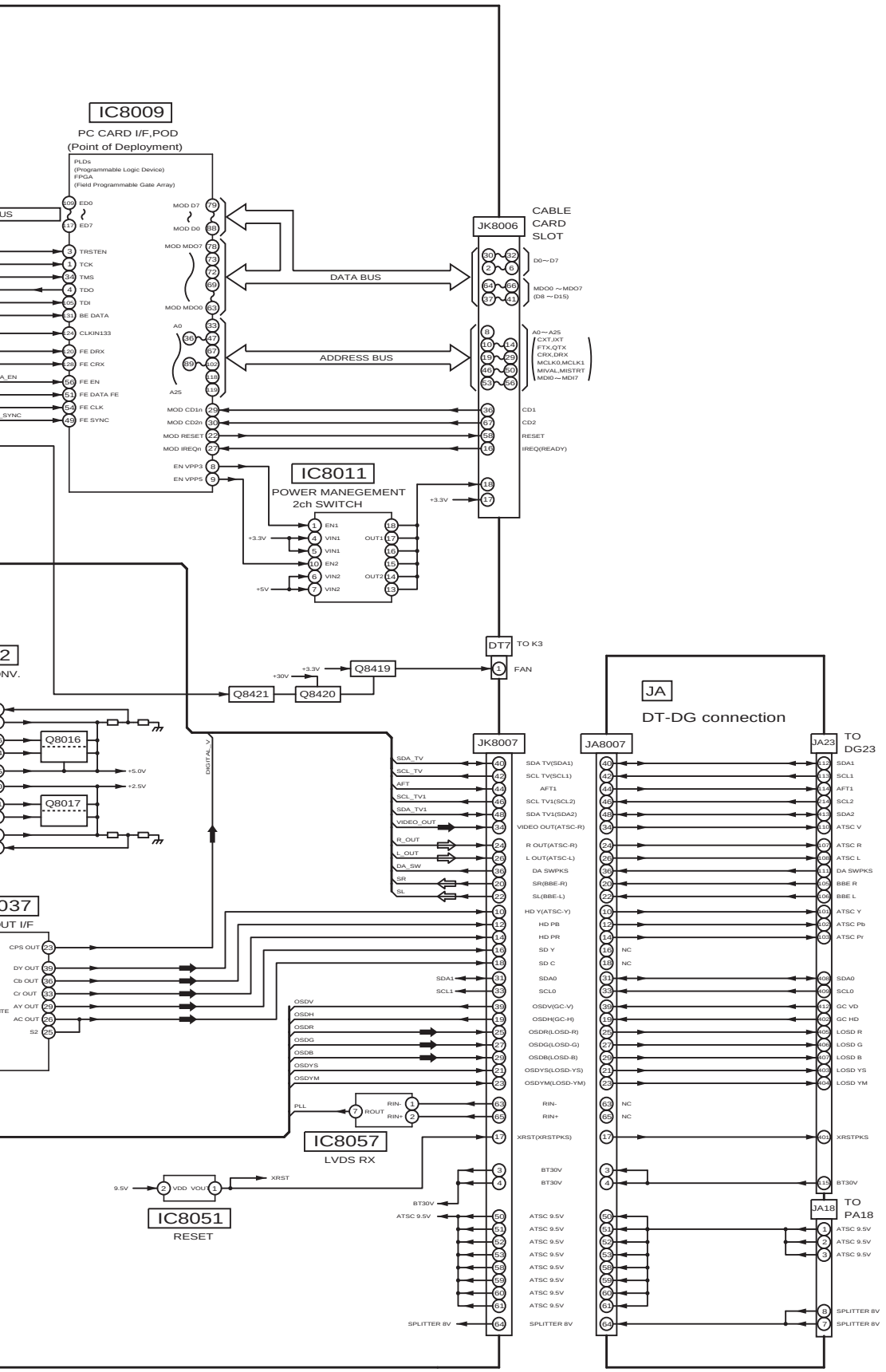


TH-37/42PD25U/P
DT-Board Block Diagram


IC8022
MIXED AND OSDILLATOR FOR TUNER
IC8007
IF GAIN CONTROLLED AMP
IC8008
DTV Cable and Terrestrial Receiver
X8102
VHF IN1
IF OUT
VHF OSC2
VHF OSC1
VIN B
VOUT B
VIN
VOUT
FDC INP
FDC INN
FS OUTN
FS OUTP
FDC AGC
RF AGC
IF AGC
GPIO0
GPIO1
RF_AGC
IF_AGC
SDA_FE
SCL_FE
X8003
IC8006
AGC AMP(IF STR/P)
X8101
IN1
IN2
OUT1
OUT2
AGC CTL
FAT INP
FAT INN
AUX AGC
IC8049
PEAK/POWER COMPARATOR
PDET COMP IN
PDET REF OUT
POWER RESET
XFE_RST
P0D DRX
P0D CRX
POD_DRX
POD_CRX
MPEG DATA7
MPEG DATA EN
MPEG PXT SYNC
MPEG CLK
SER_DATA
MPEG_DATA_EN
MPEG_PXT_SYNC
MPEG_CLK
IC8015
EEPROM
SDA
SCL
SDA1
SCL1
IC8032
16Bit AUDIO A/D
PD
MCLK
SCLK
AINR
AINL
LRCK
SDTO
SR
SL
SLRCK
AD
SRCK
DACCK
DATA BUS
ADDRESS BUS
IC8025
128Mbit D-RDRAM
IC8024(4/5)
HDSL PEARK
DQB0
DQB7
DQA0
DQA7
RQ0
RQ7
CTMN
CTM
SCK,CMD,SID
IC8028
RAM BUS CLOCK GENERATOR
CLK
CLKB
REFCLK
PCLKM
SYNCLK
UCLK
MCLK
CLK75
CLK270
VC270
IC8026
IC for VCXO
Q0
VC
XTB
XT
X8005
IC8054
AVR 2.5V
+3.3V
2.5VA
IC8030
AVR 3.3V
+5V
VIN
VOUT
+2.5V
IC8055
AVR 5V
VO
STB5V
IC8039
AVR 9V
9.5V
A9V
IC8040
AVR 1.8V
+2.5V
IC8043
AVR 1.2V
+1.8V
IC8056
AVR 5V
+1.2V

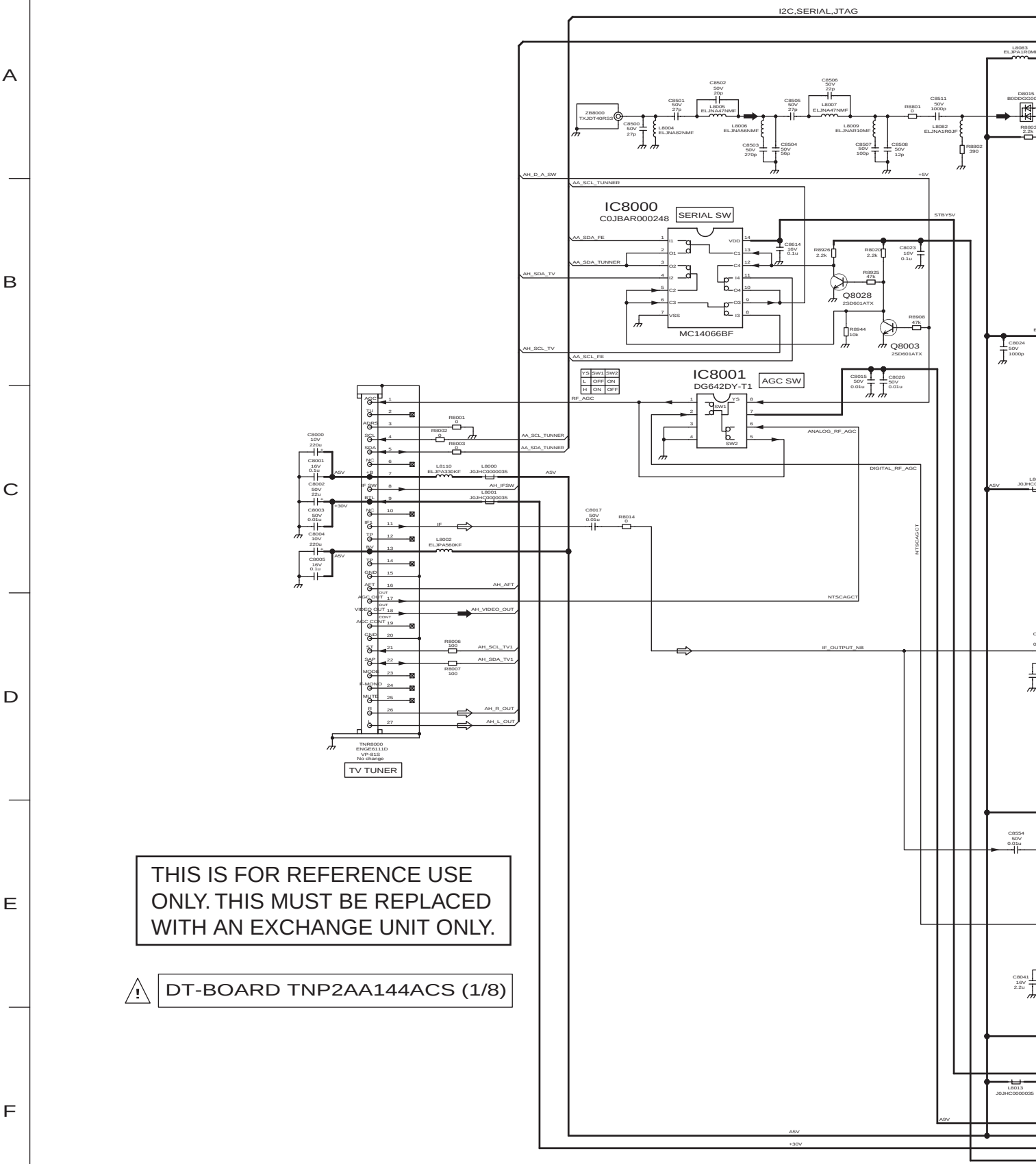


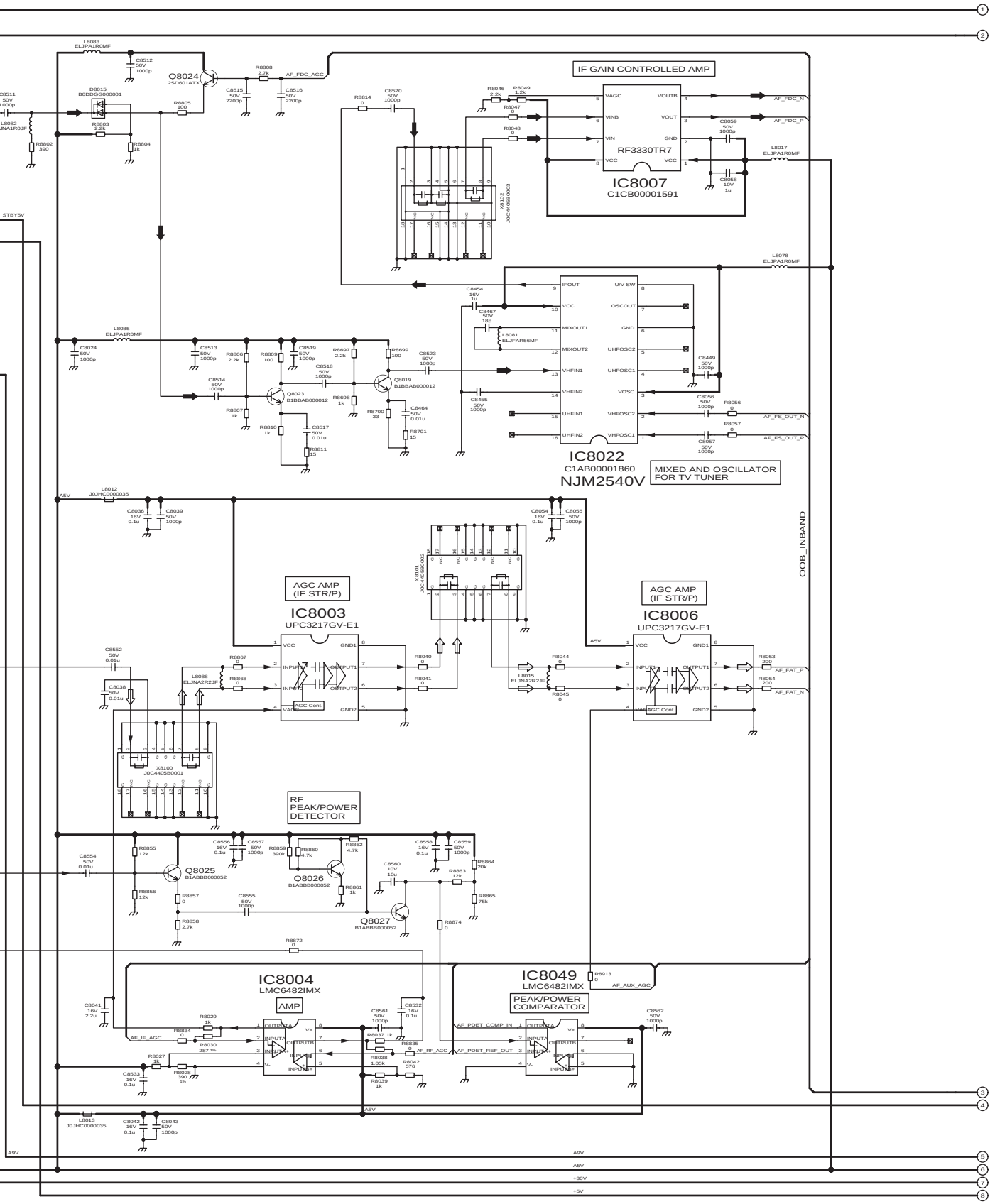
TH-37/42PD25U/P
DT and JA-Board Block Diagram



TH-37/42PD25U/P
DT and JA-Board Block Diagram

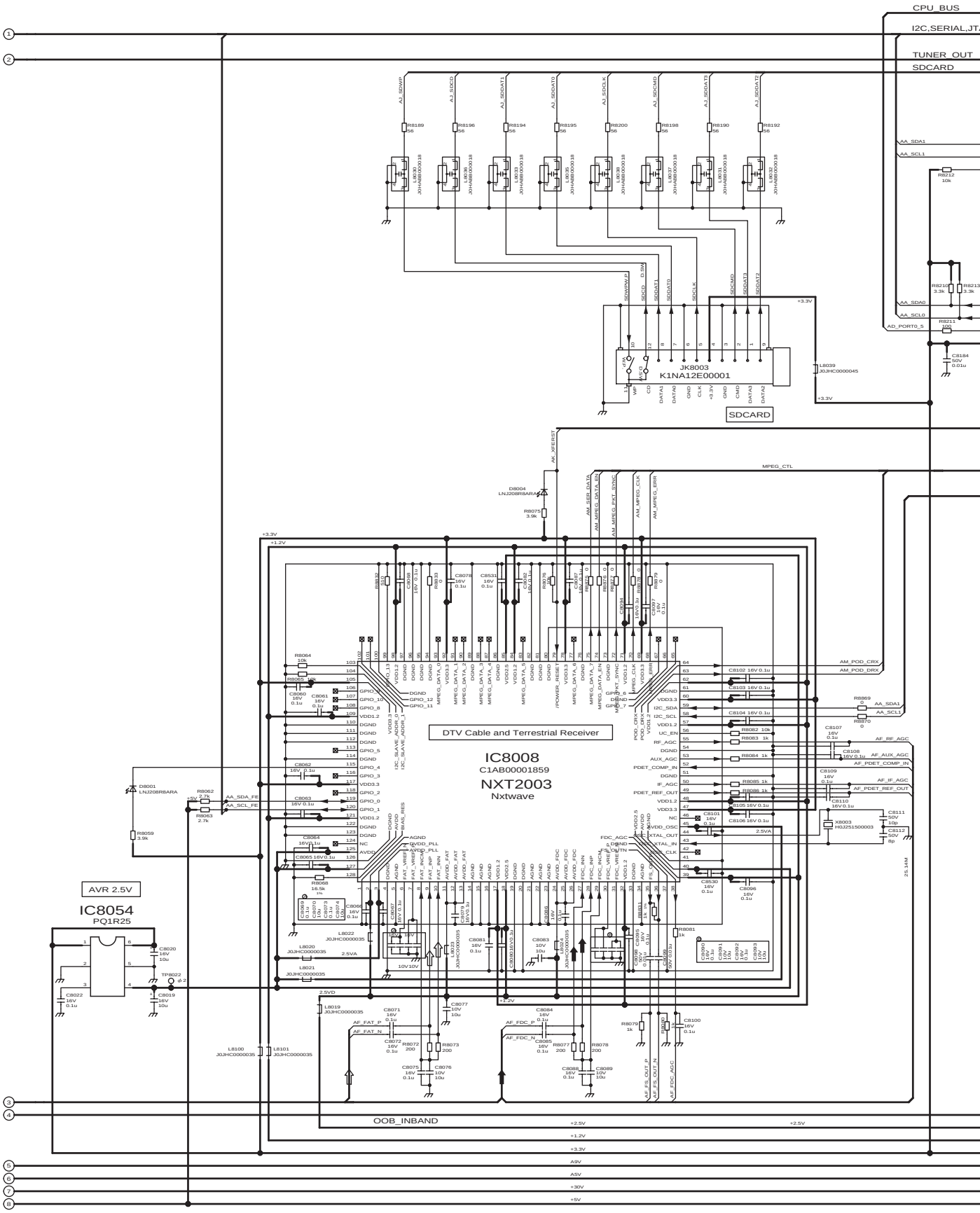
15.11. DT-Board (1 of 8) Schematic Diagram



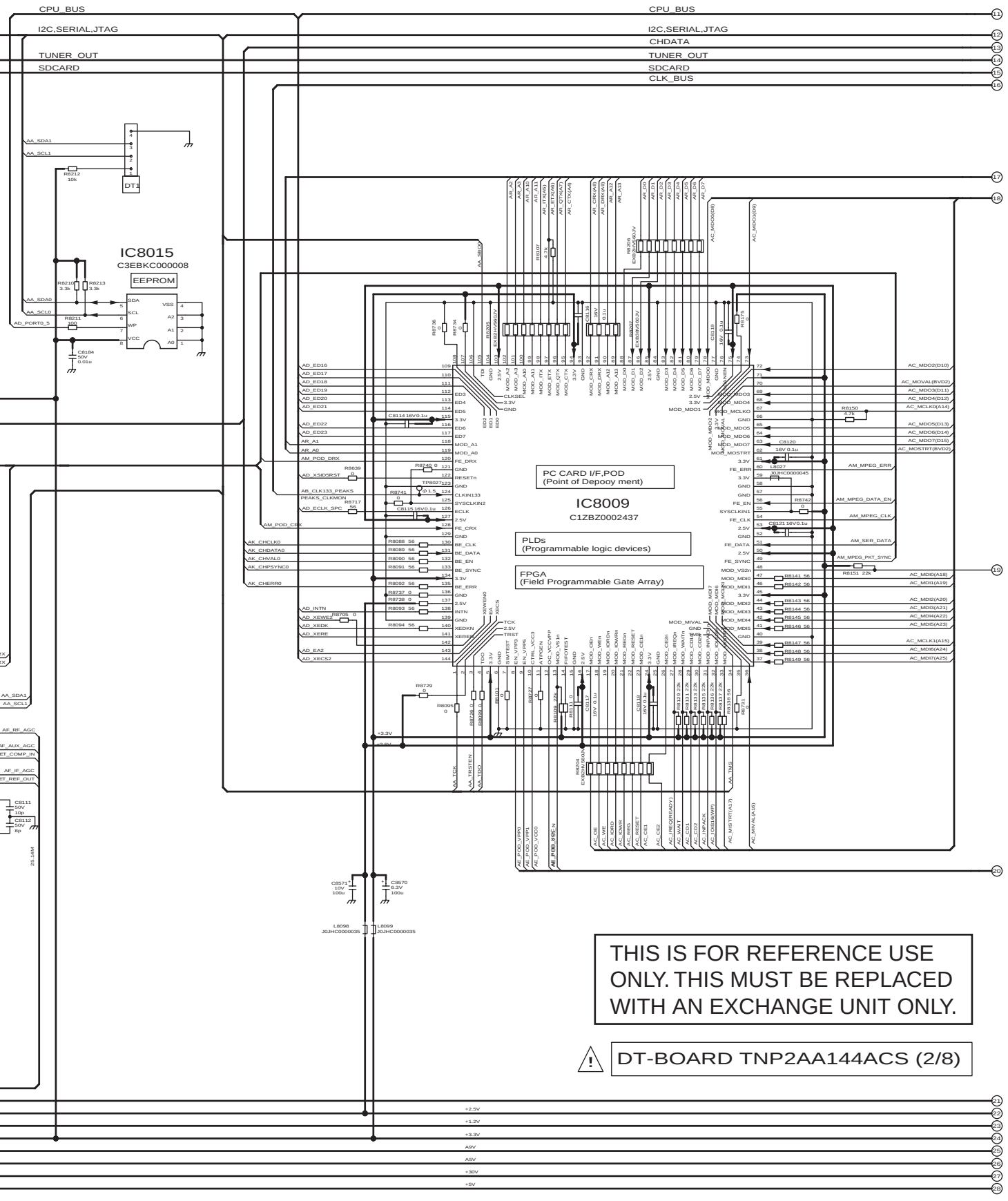


TH-37/42PD25U/P
DT-Board (1 of 8) Schematic Diagram

15.12. DT-Board (2 of 8) Schematic Diagram

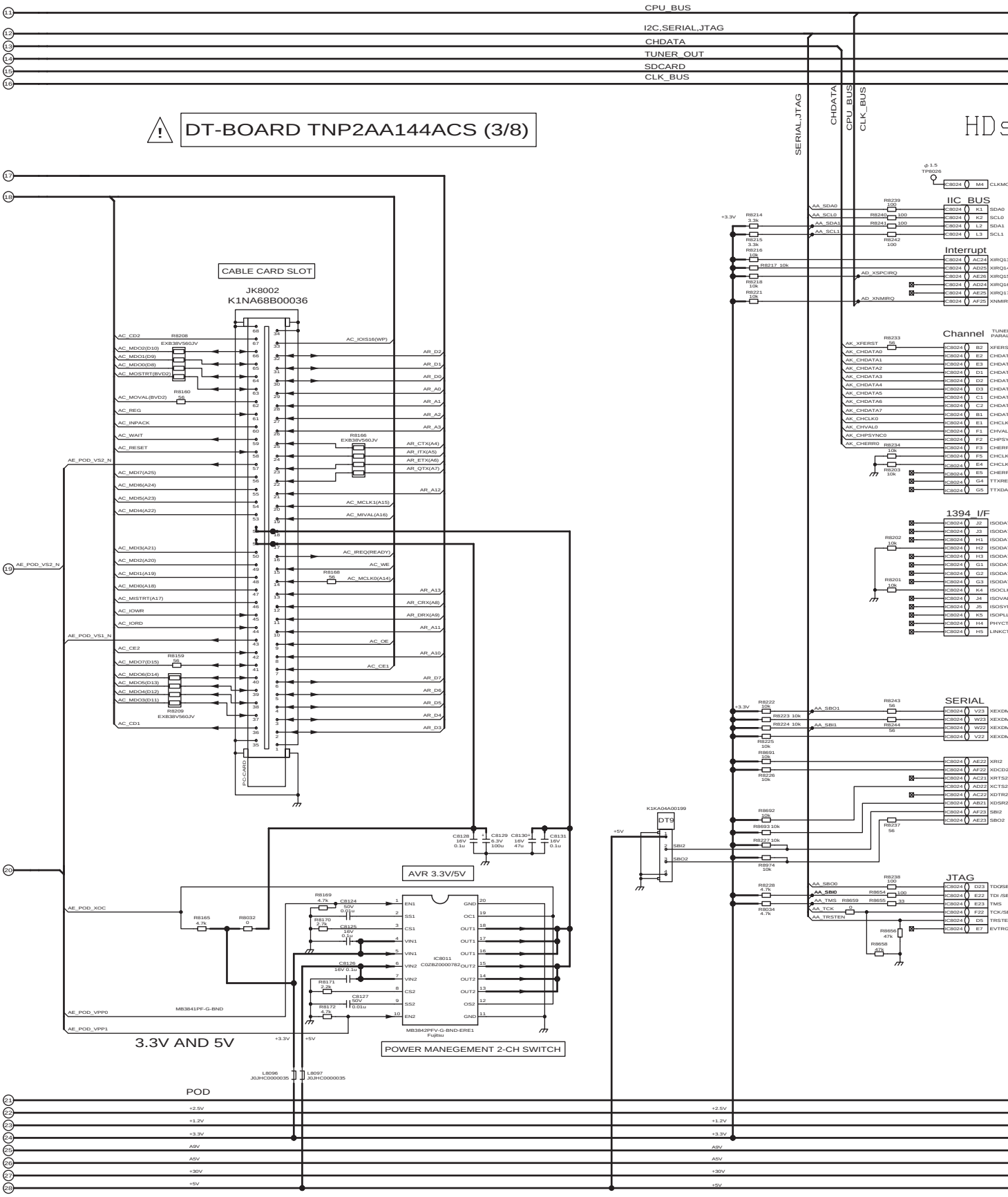


TH-37/42PD25U/P
DT-Board (2 of 8) Schematic Diagram

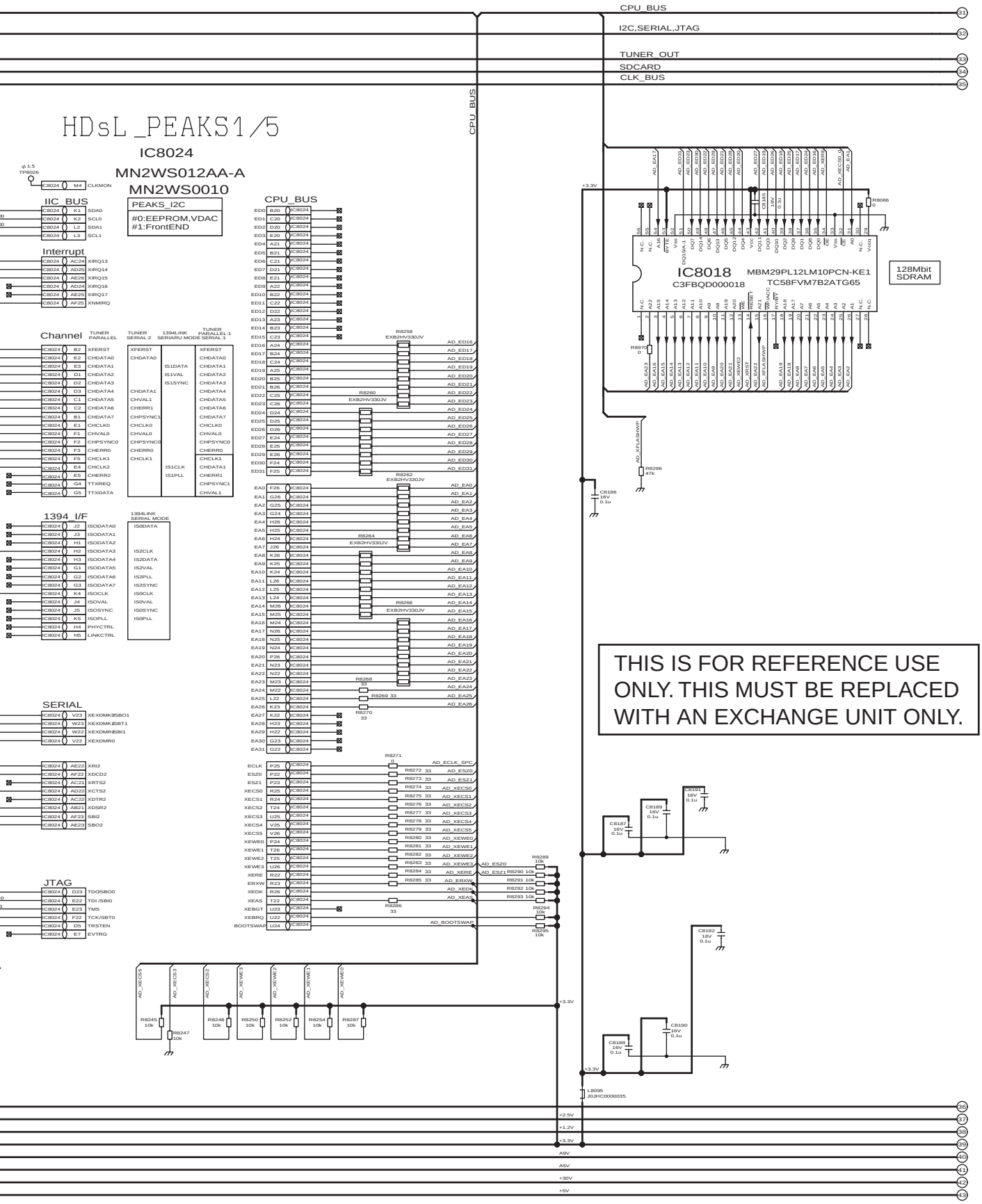


TH-37/42PD25U/P
DT-Board (2 of 8) Schematic Diagram

15.13. DT-Board (3 of 8) Schematic Diagram

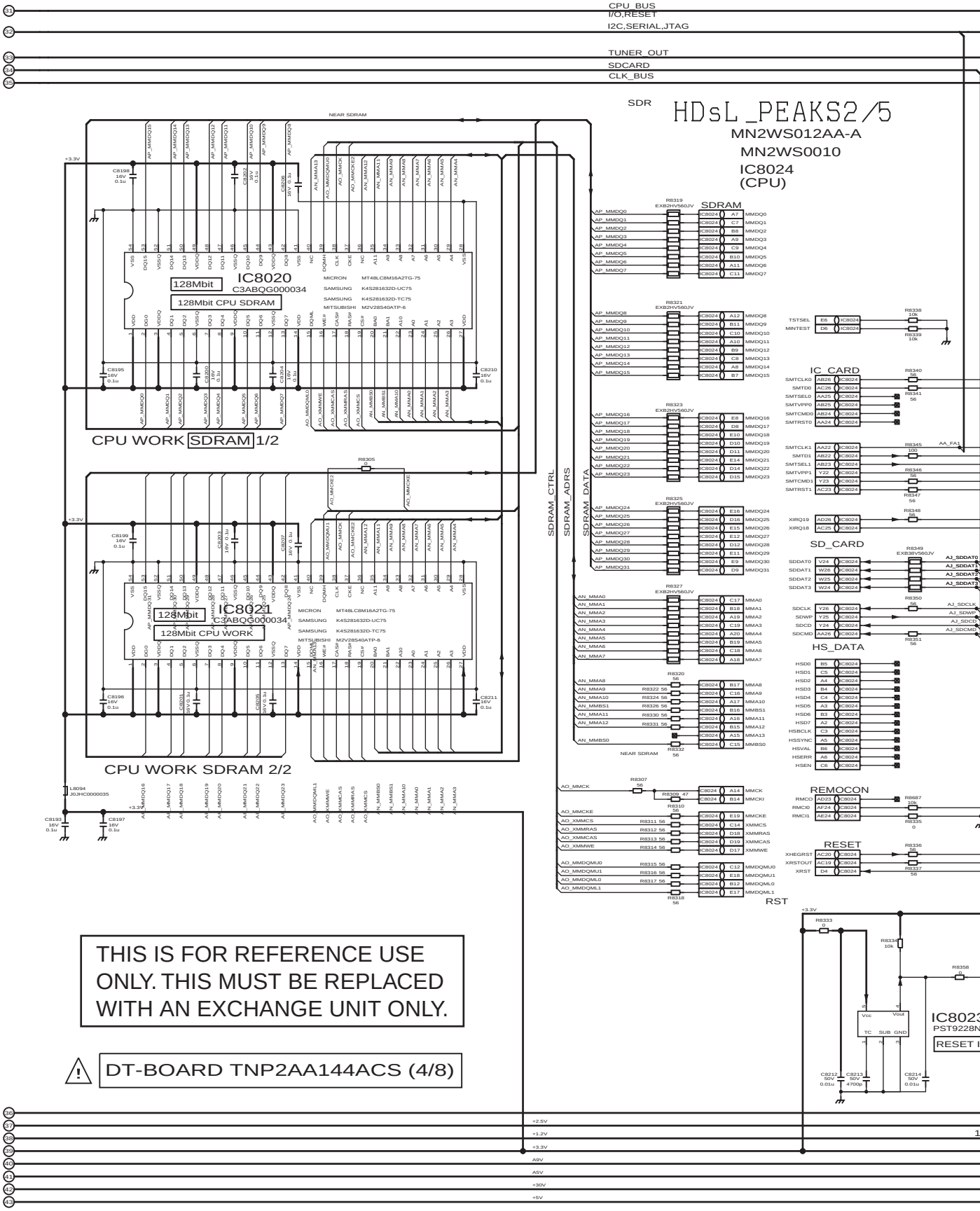


TH-37/42PD25U/P
DT-Board (3 of 8) Schematic Diagram



TH-37/42PD25U/P
DT-Board (3 of 8) Schematic Diagram

15.14. DT-Board (4 of 8) Schematic Diagram

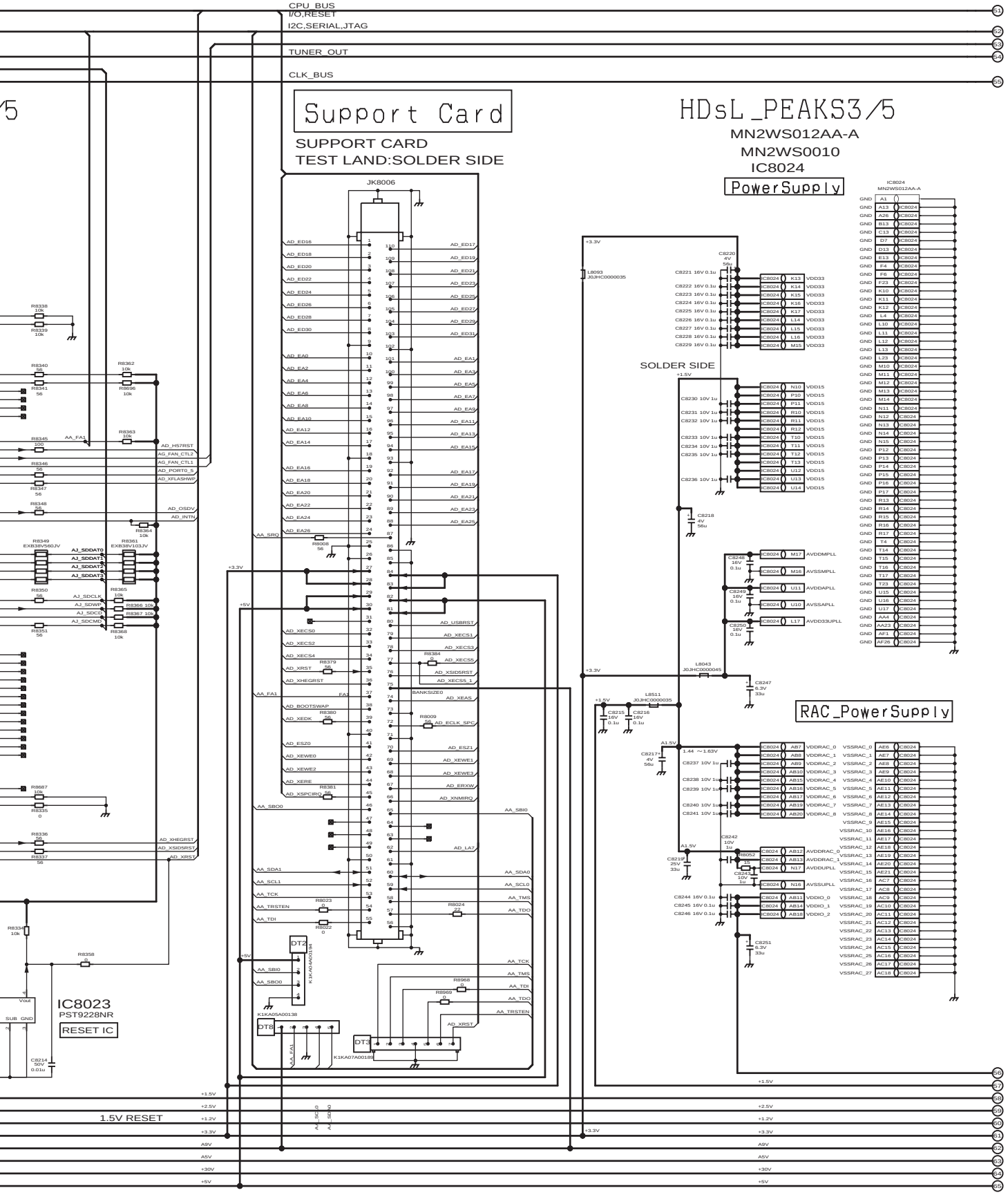


THIS IS FOR REFERENCE USE ONLY. THIS MUST BE REPLACED WITH AN EXCHANGE UNIT ONLY.

⚠ DT-BOARD TNP2AA144ACS (4/8)

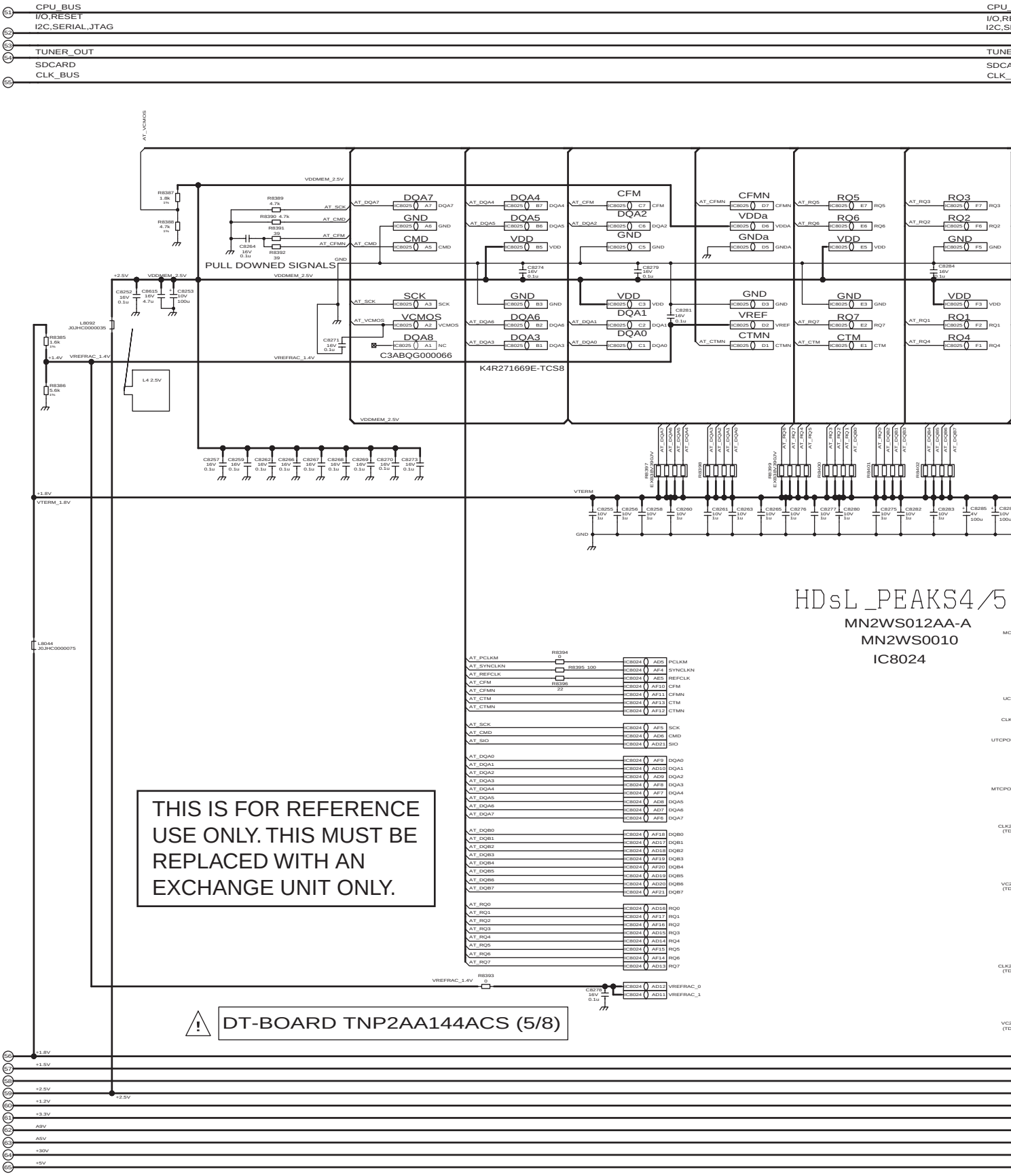
TH-37/42PD25U/P
DT-Board (4 of 8) Schematic Diagram

28 | 29 | 30 | 31 | 32

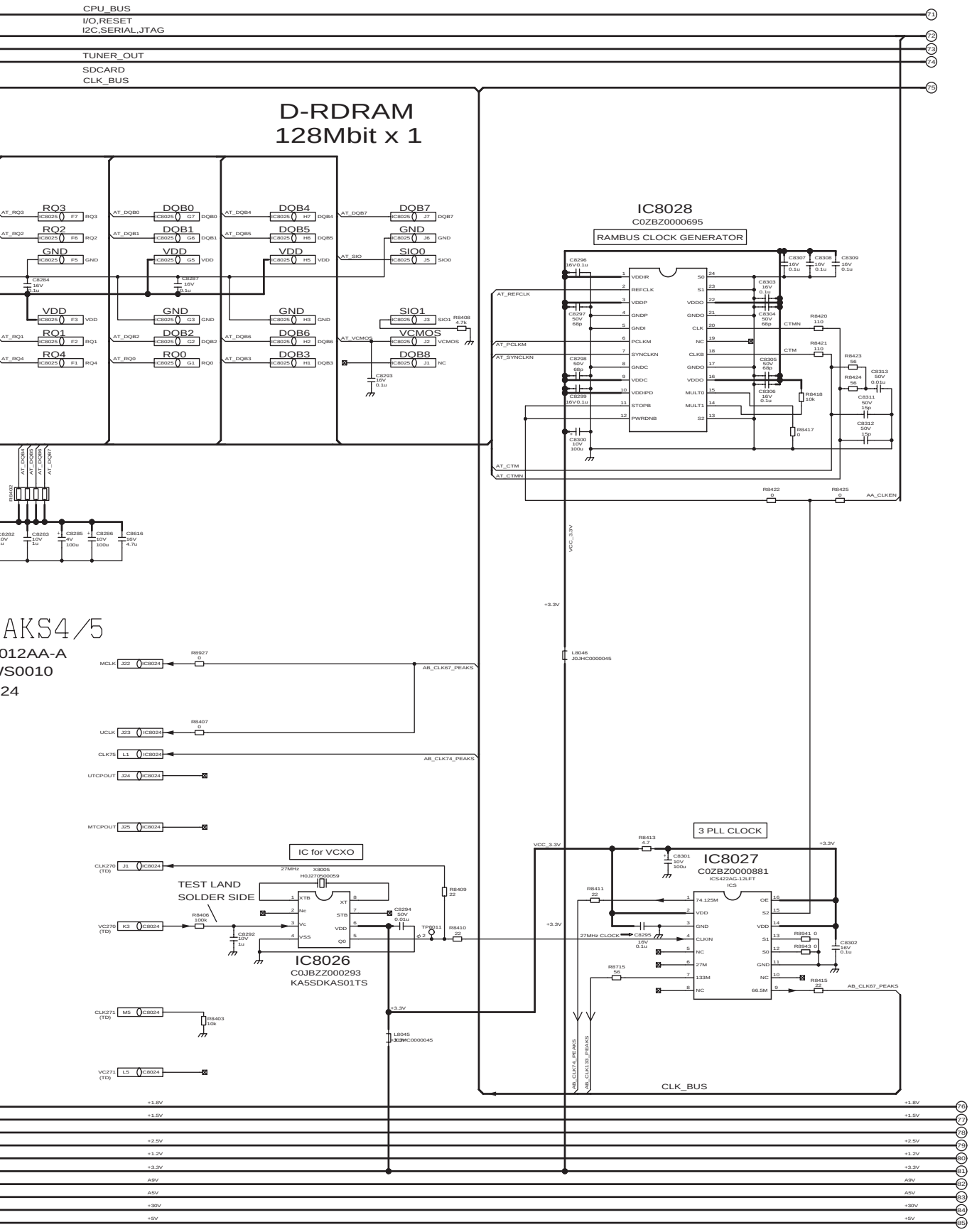


TH-37/42PD25U/P
DT-Board (4 of 8) Schematic Diagram

15.15. DT-Board (5 of 8) Schematic Diagram

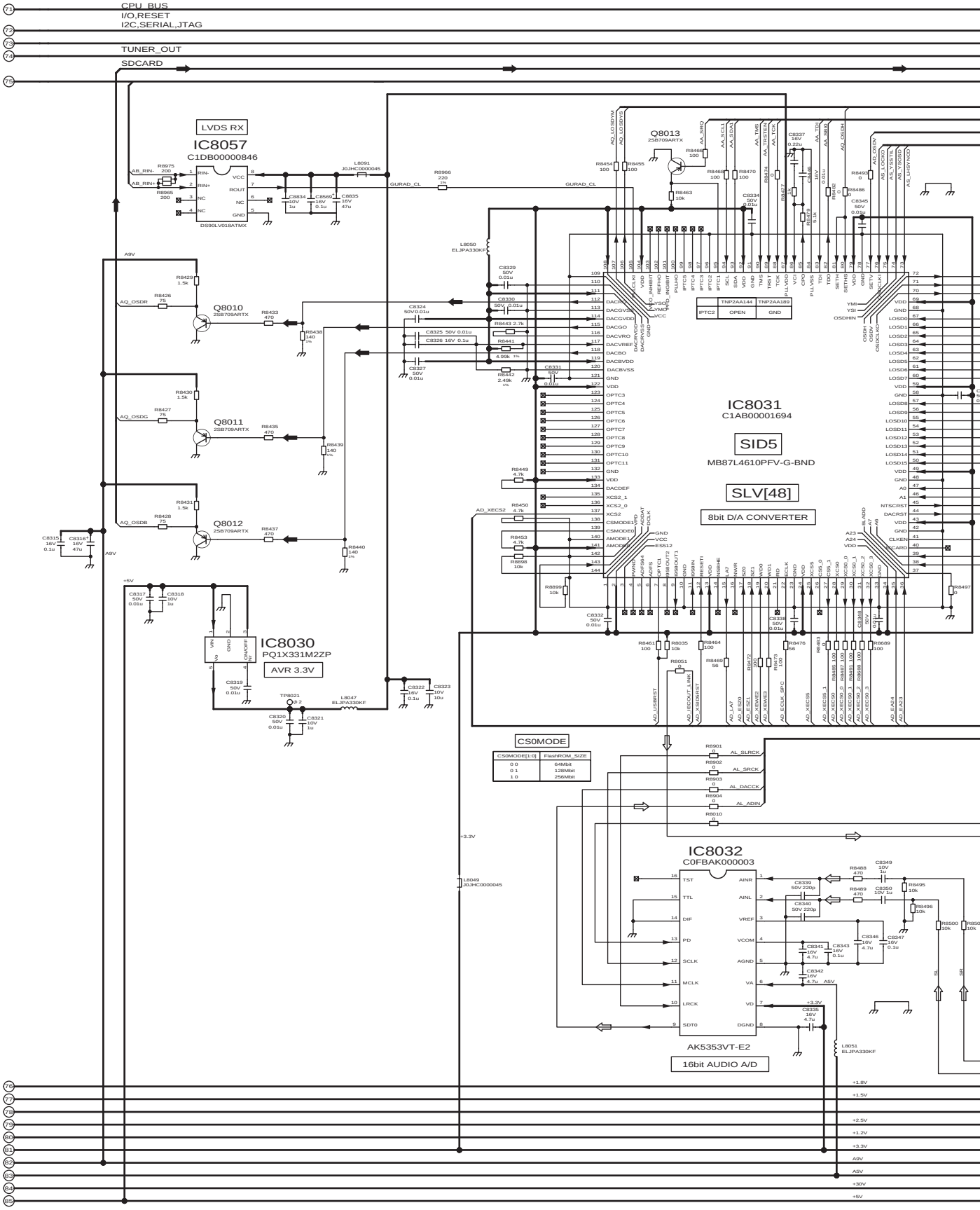


TH-37/42PD25U/P
DT-Board (5 of 8) Schematic Diagram

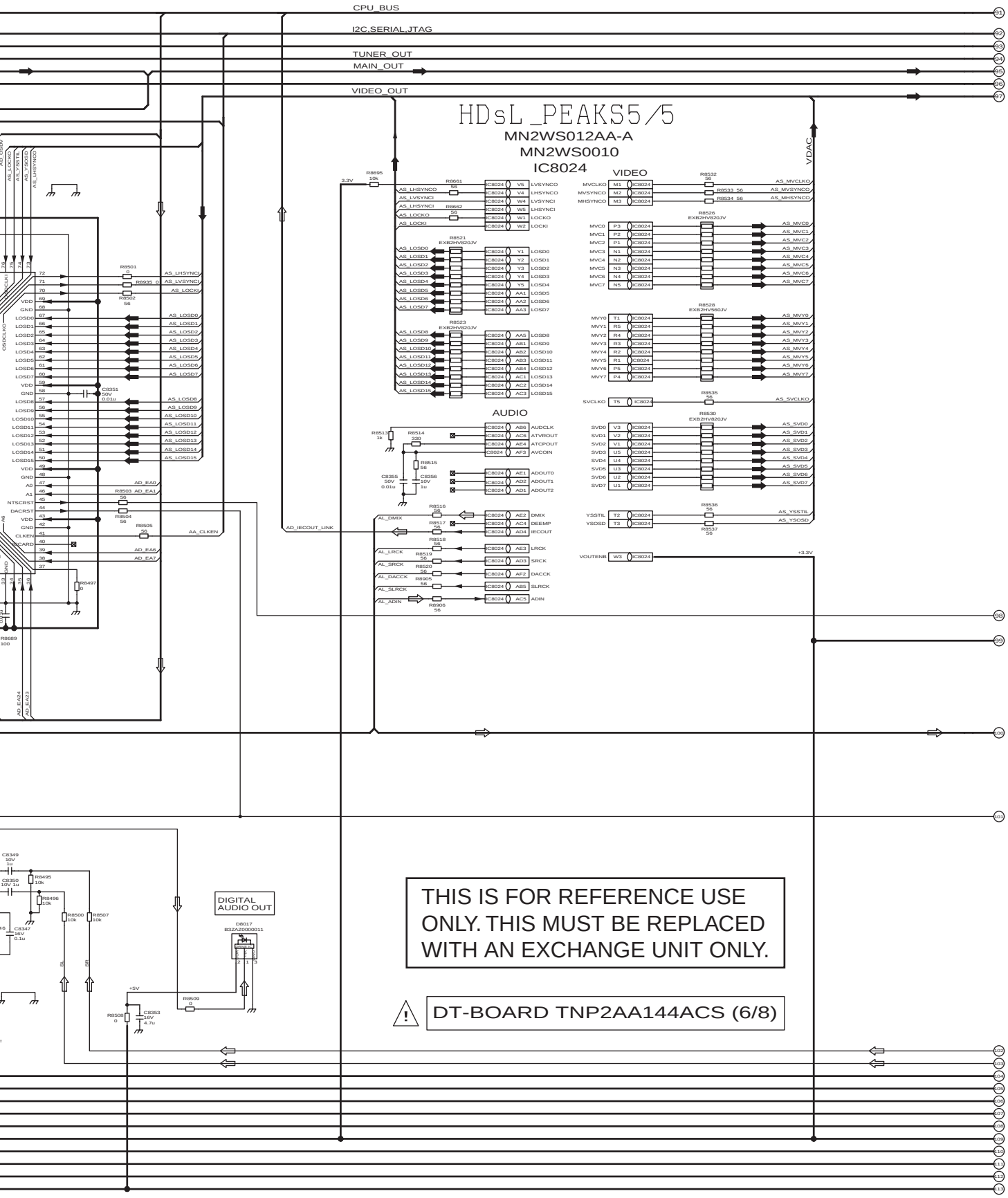


TH-37/42PD25U/P
DT-Board (5 of 8) Schematic Diagram

15.16. DT-Board (6 of 8) Schematic Diagram

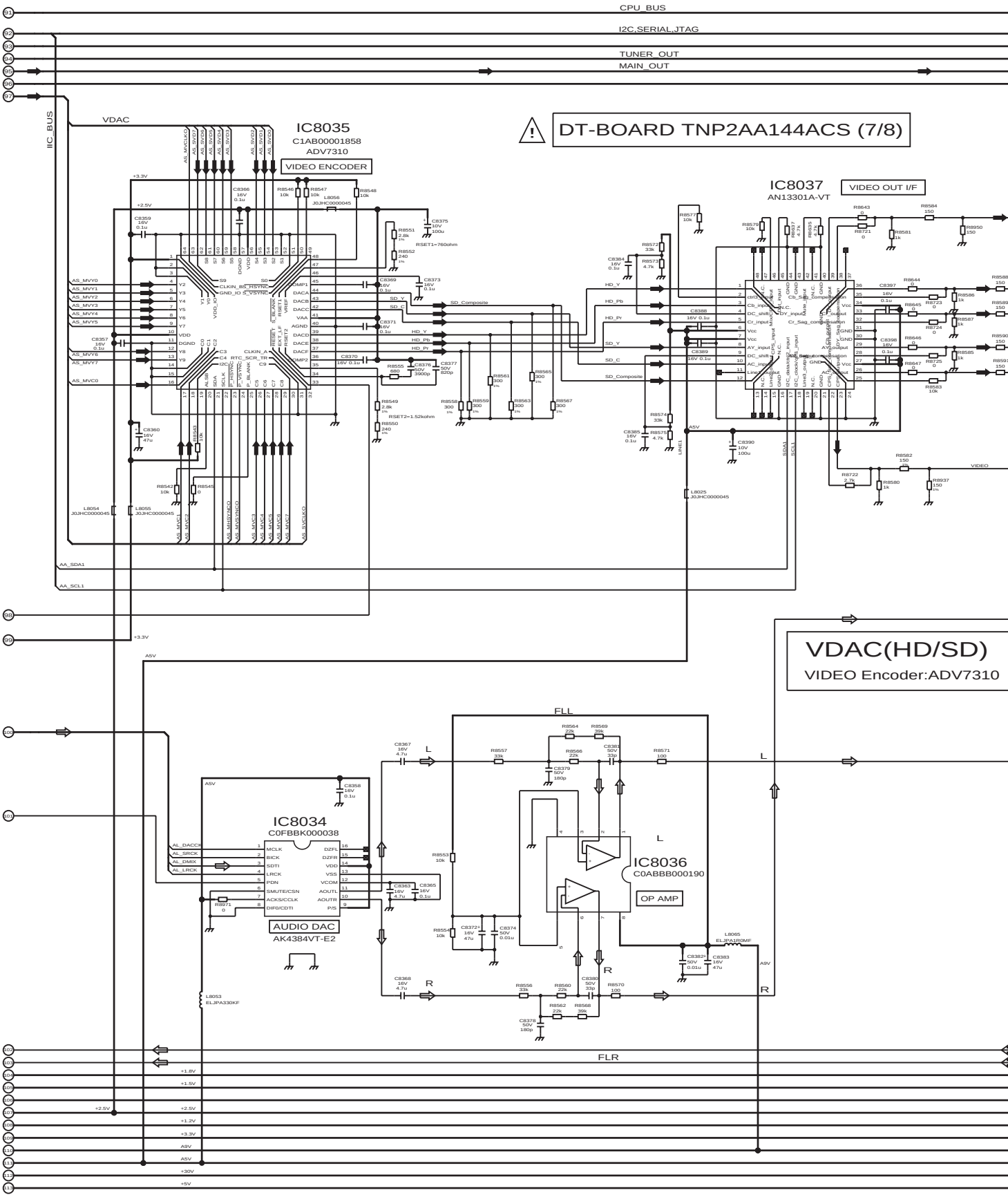


TH-37/42PD25U/P
DT-Board (6 of 8) Schematic Diagram

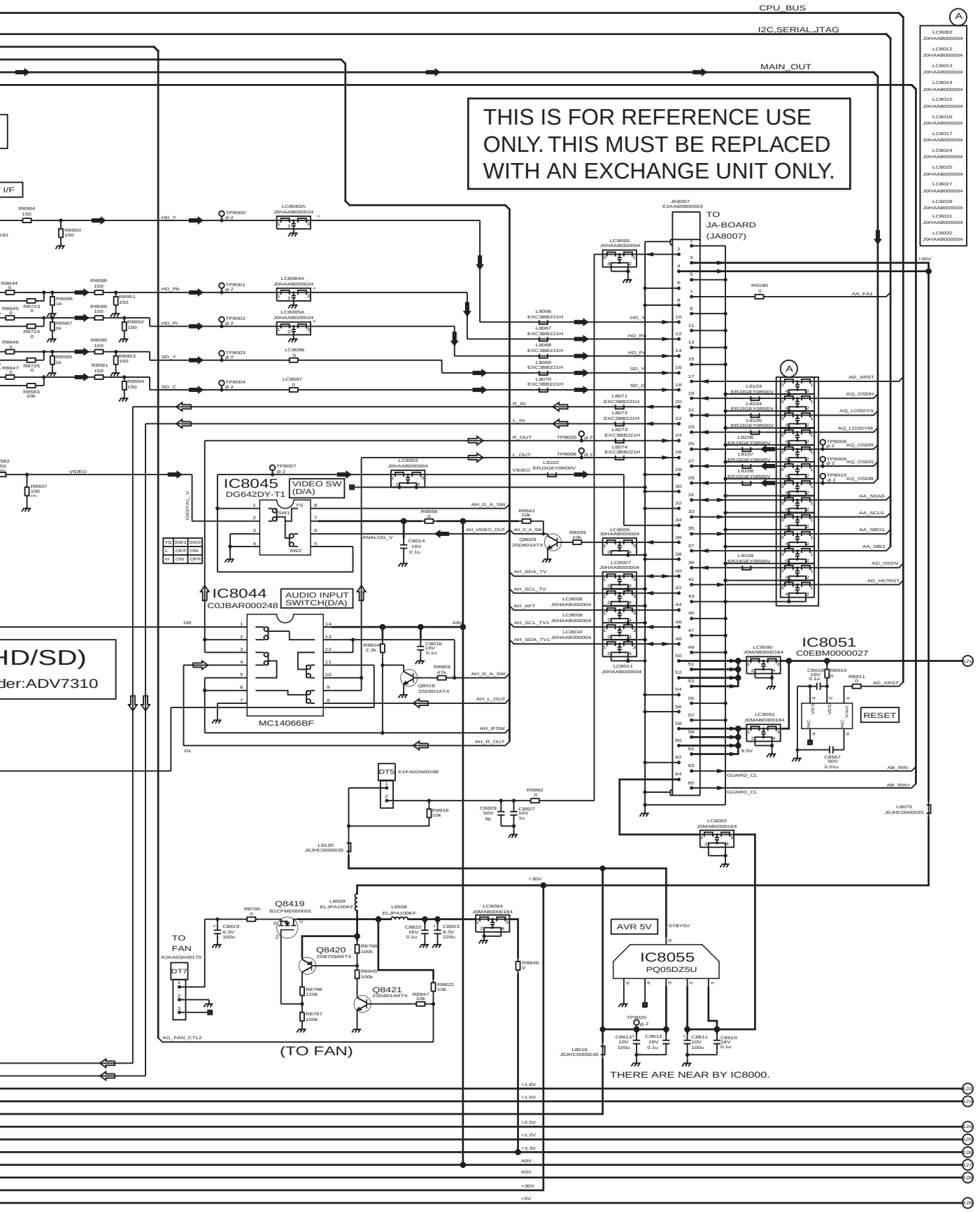


TH-37/42PD25U/P
DT-Board (6 of 8) Schematic Diagram

15.17. DT-Board (7 of 8) Schematic Diagram

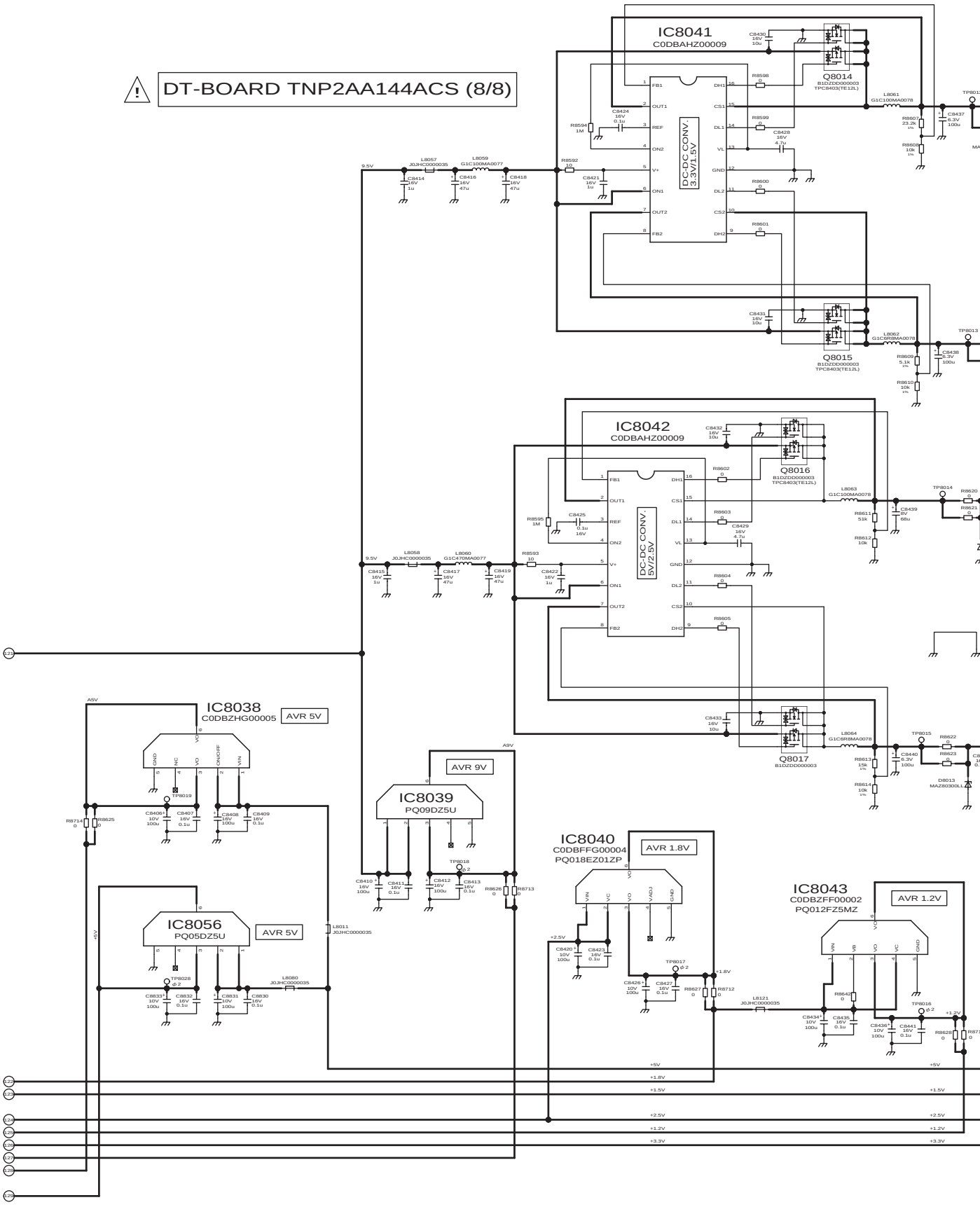


TH-37/42PD25U/P
DT-Board (7 of 8) Schematic Diagram

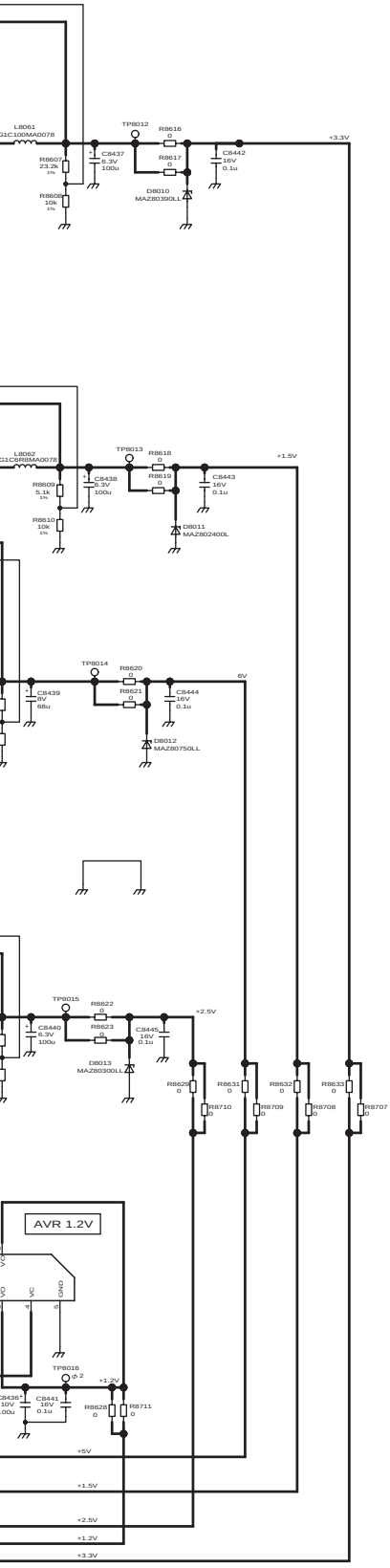


TH-37/42PD25U/P
DT-Board (7 of 8) Schematic Diagram

15.18. DT-Board (8 of 8) Schematic Diagram



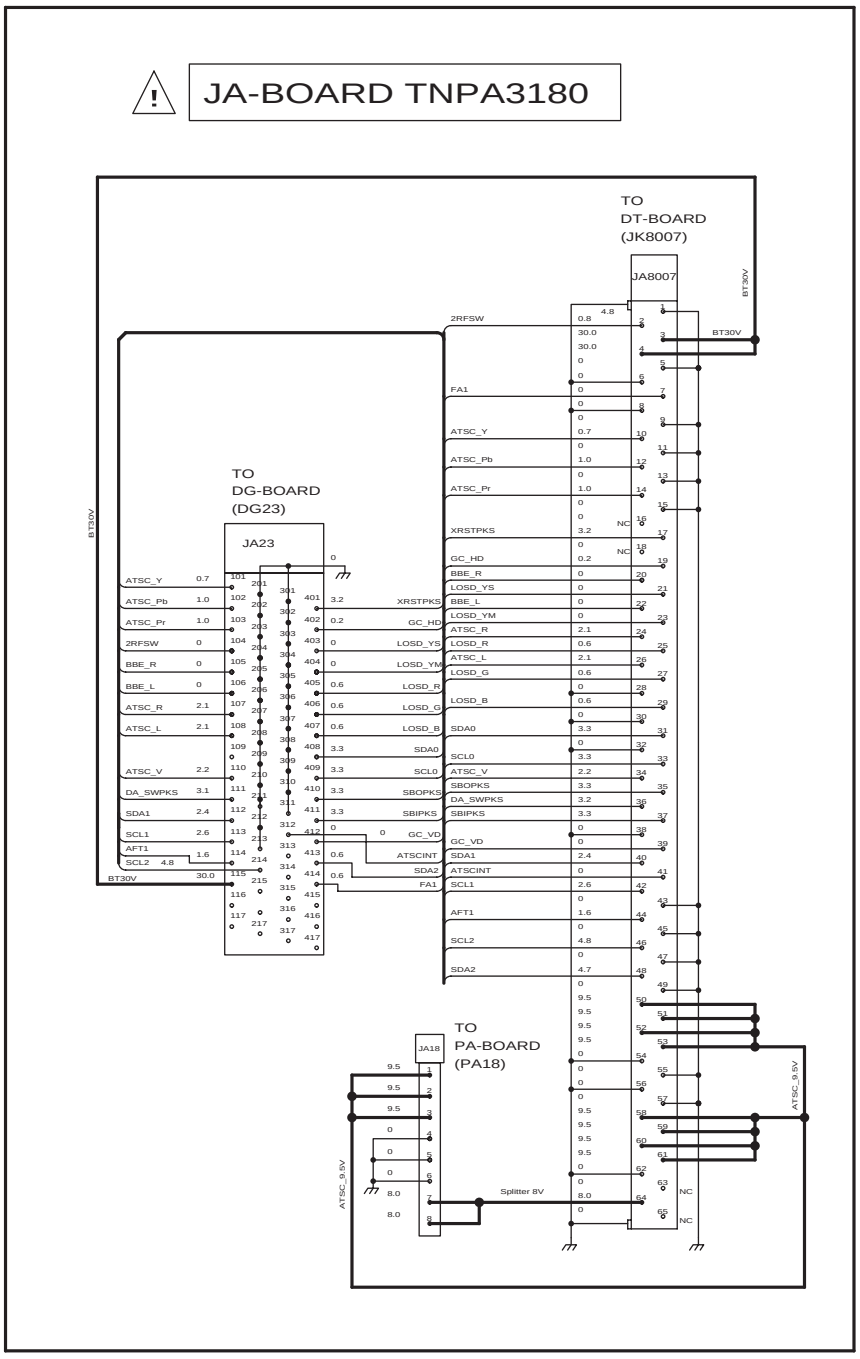
TH-37/42PD25U/P
DT-Board (8 of 8) Schematic Diagram

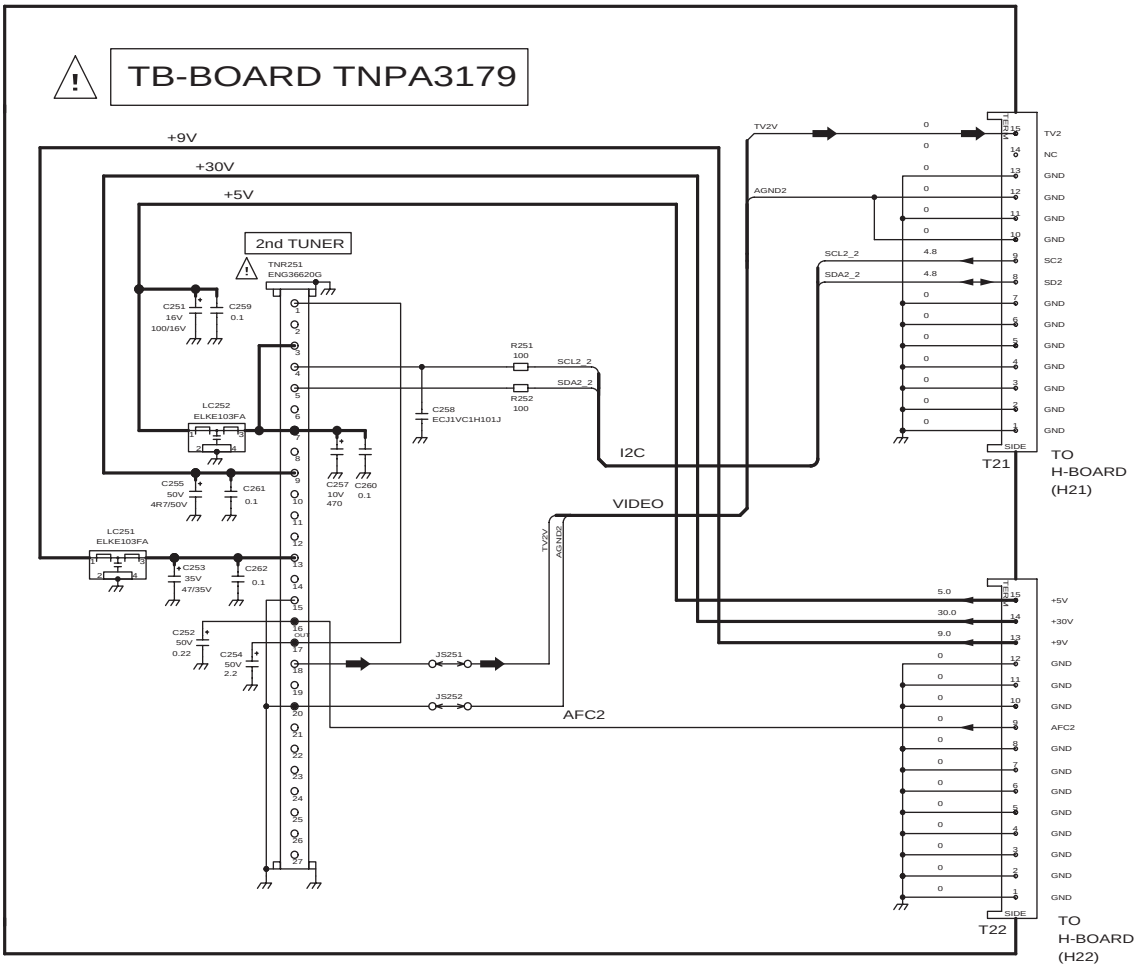


THIS IS FOR REFERENCE USE ONLY. THIS MUST BE REPLACED WITH AN EXCHANGE UNIT ONLY.

TH-37/42PD25U/P
DT-Board (8 of 8) Schematic Diagram

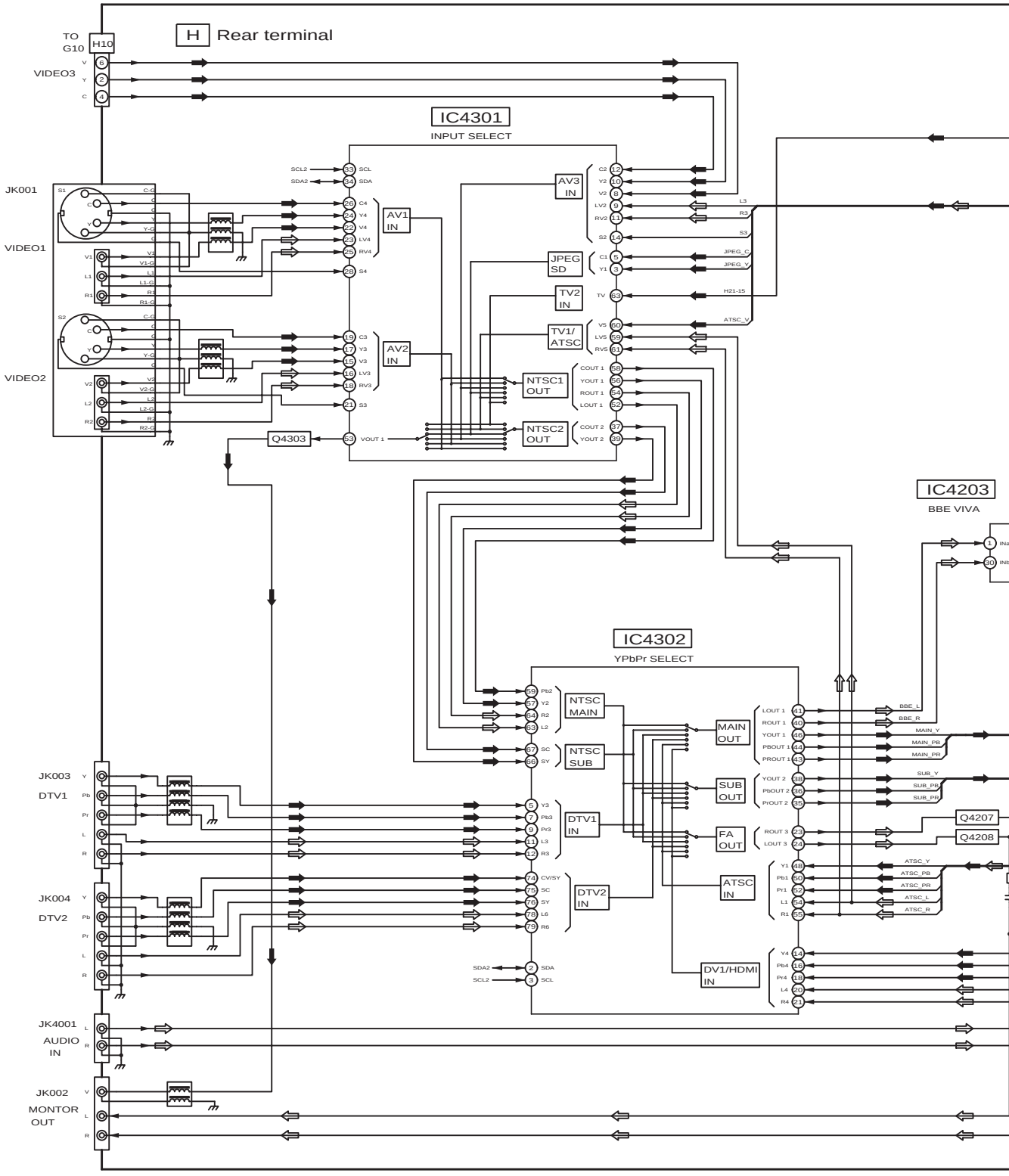
15.19. JA and TB-Board Schematic Diagram



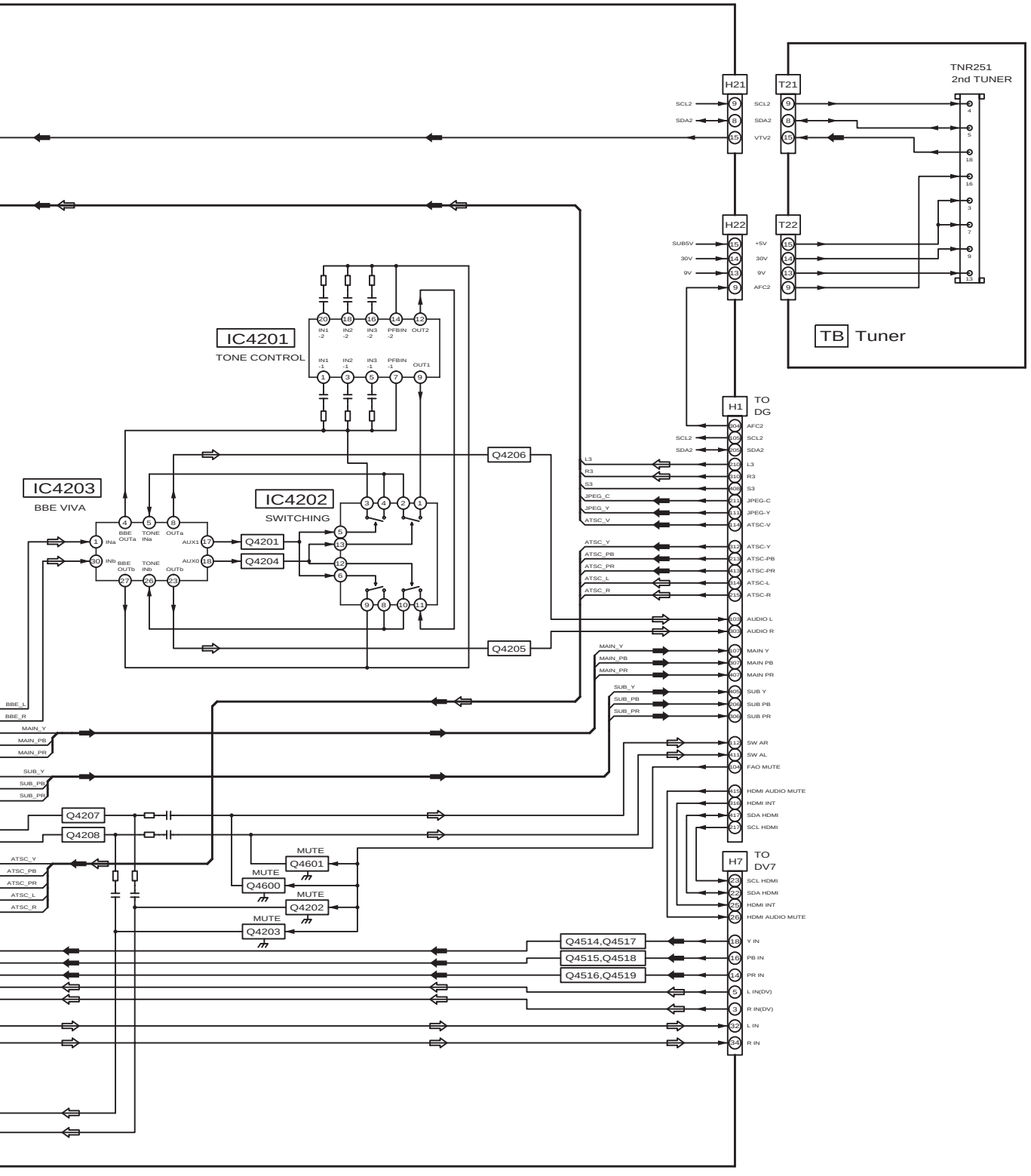


TH-37/42PD25U/P
JA and TB-Board Schematic Diagram

15.20. H and TB-Board Block Diagram

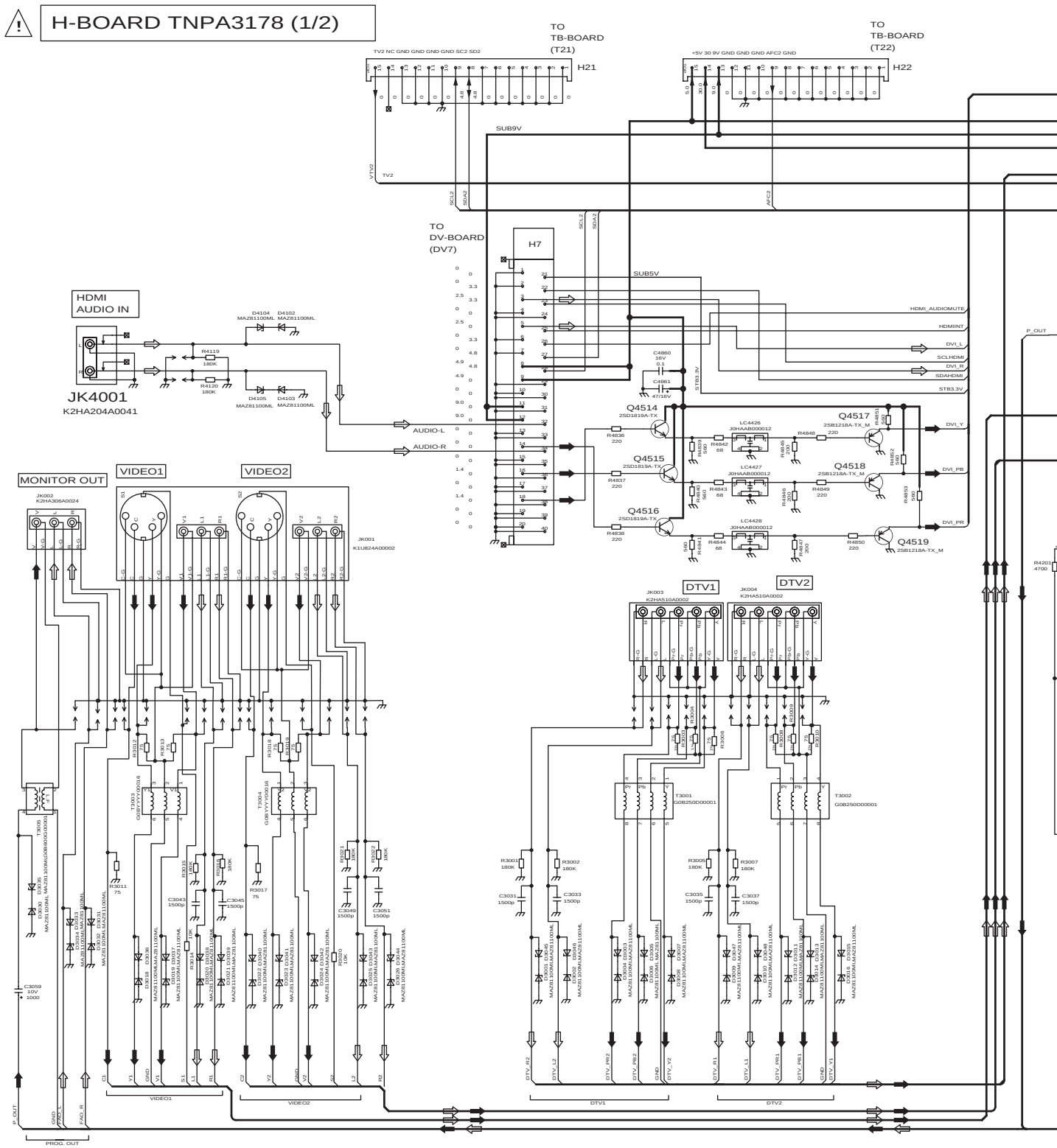


TH-37/42PD25U/P
H and TB-Board Block Diagram

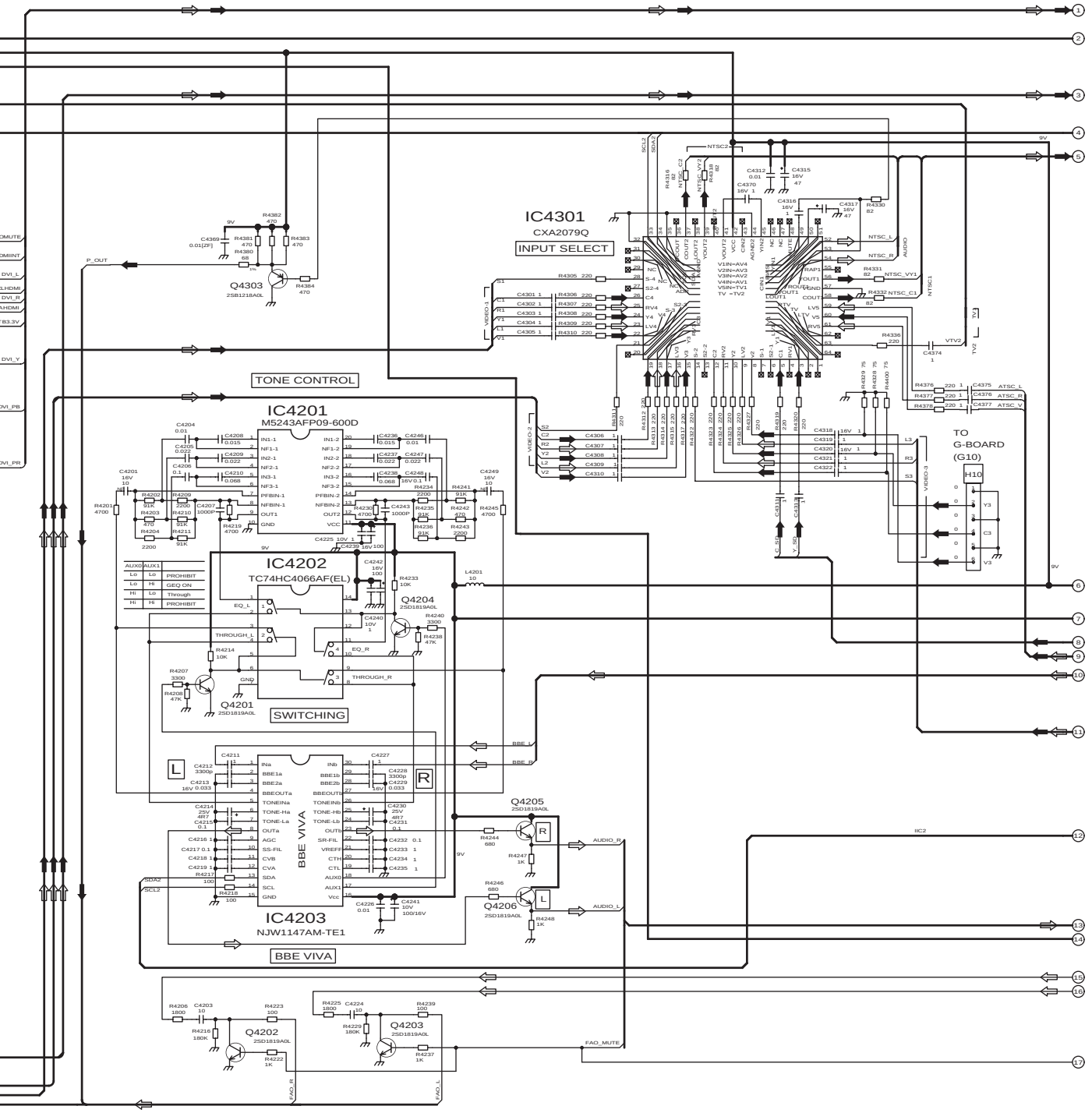


TH-37/42PD25U/P
H and TB-Board Block Diagram

15.21. H-Board (1 of 2) Schematic Diagram



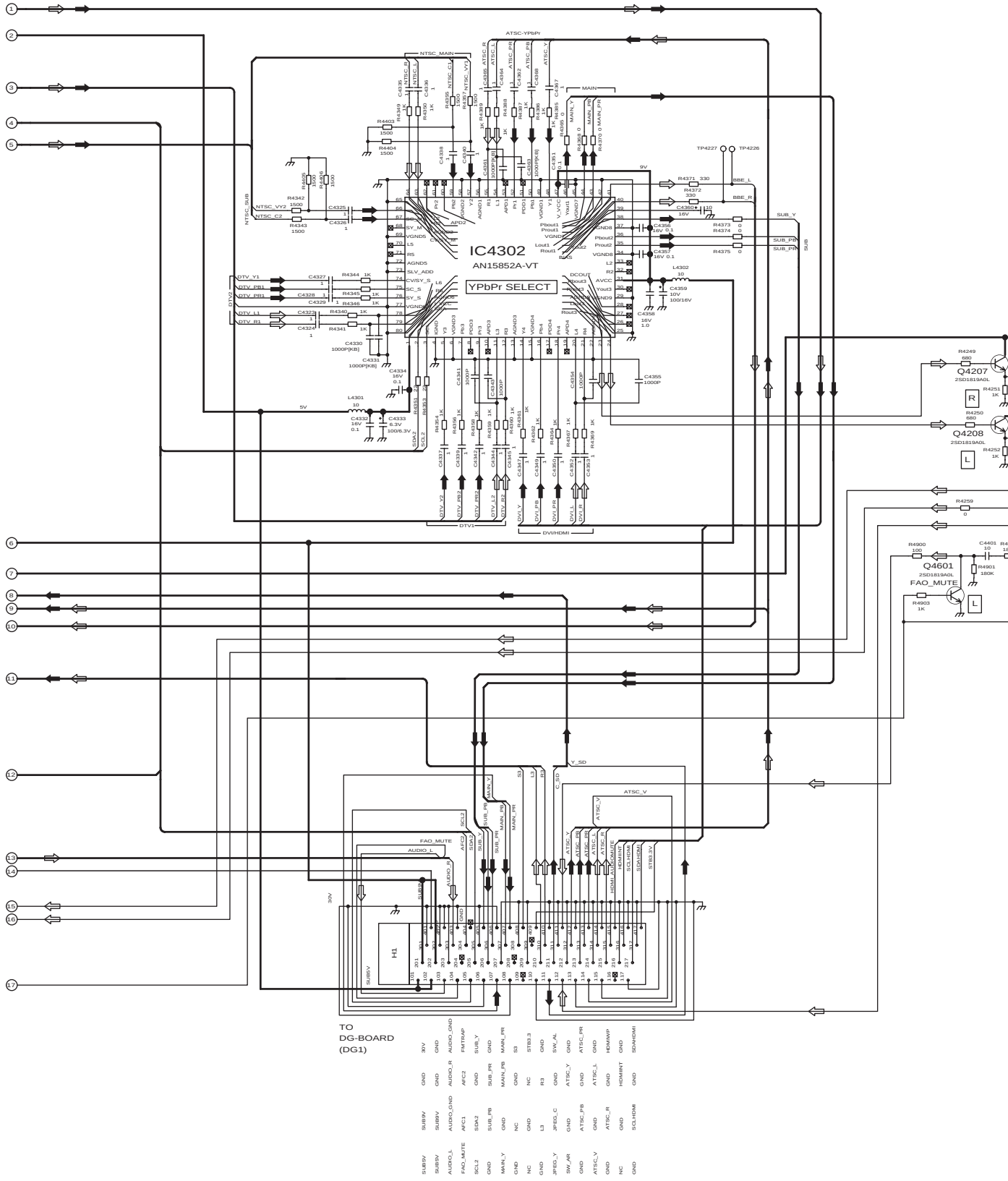
TH-37/42PD25U/P
H-Board (1 of 2) Schematic Diagram



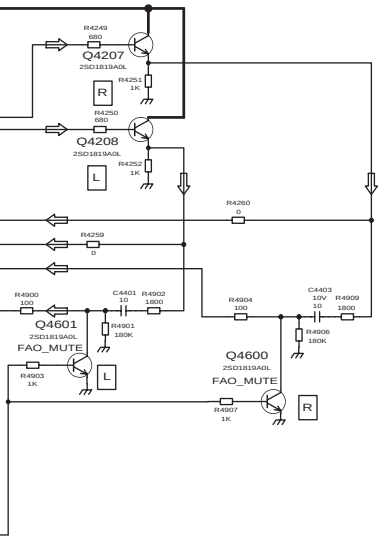
TH-37/42PD25U/P
H-Board (1 of 2) Schematic Diagram

15.22. H-Board (2 of 2) Schematic Diagram

H-BOARD TNPA3178 (2/2)

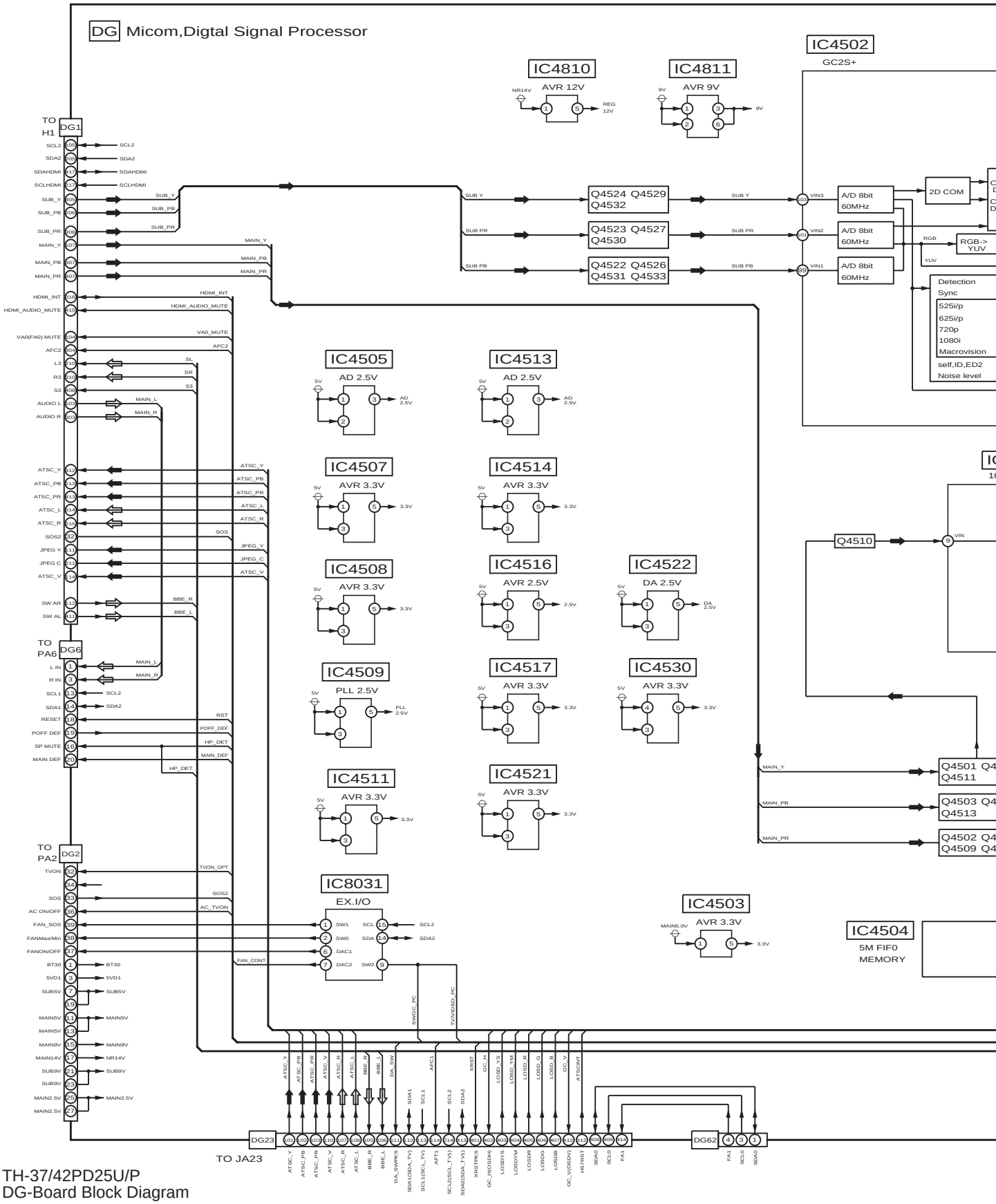


TH-37/42PD25U/P
H-Board (2 of 2) Schematic Diagram

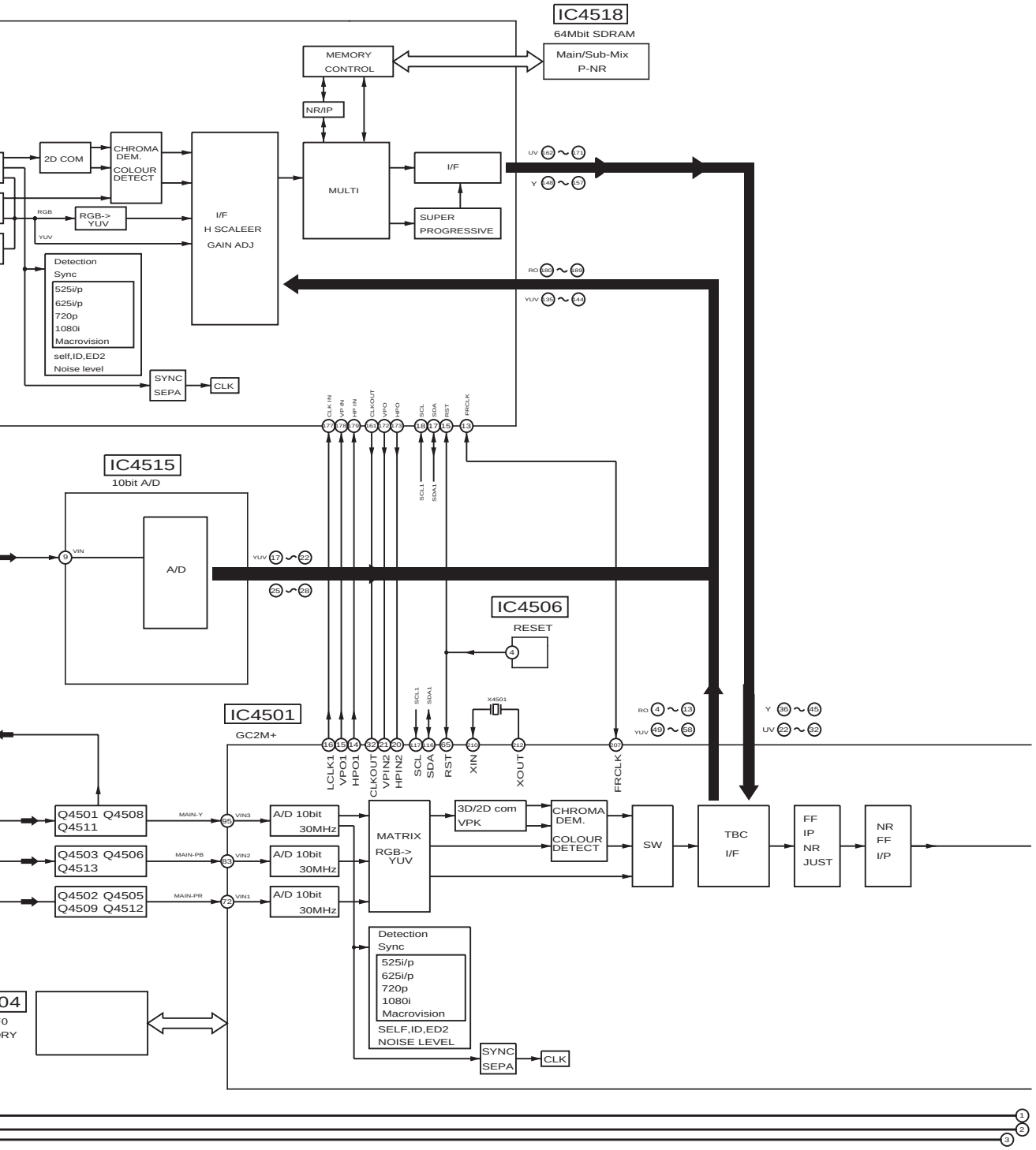


TH-37/42PD25U/P
H-Board (2 of 2) Schematic Diagram

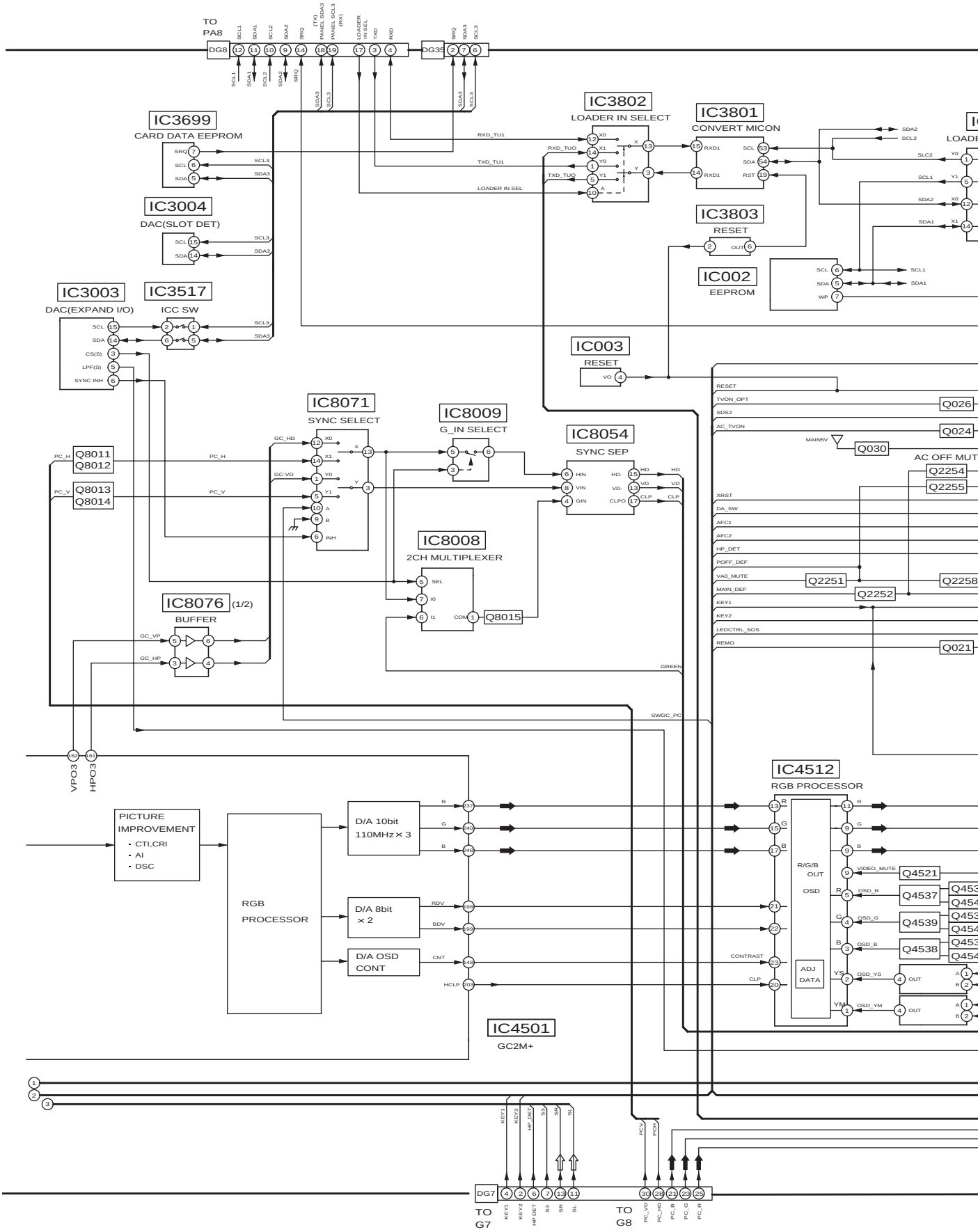
15.23. DG-Board Block Diagram



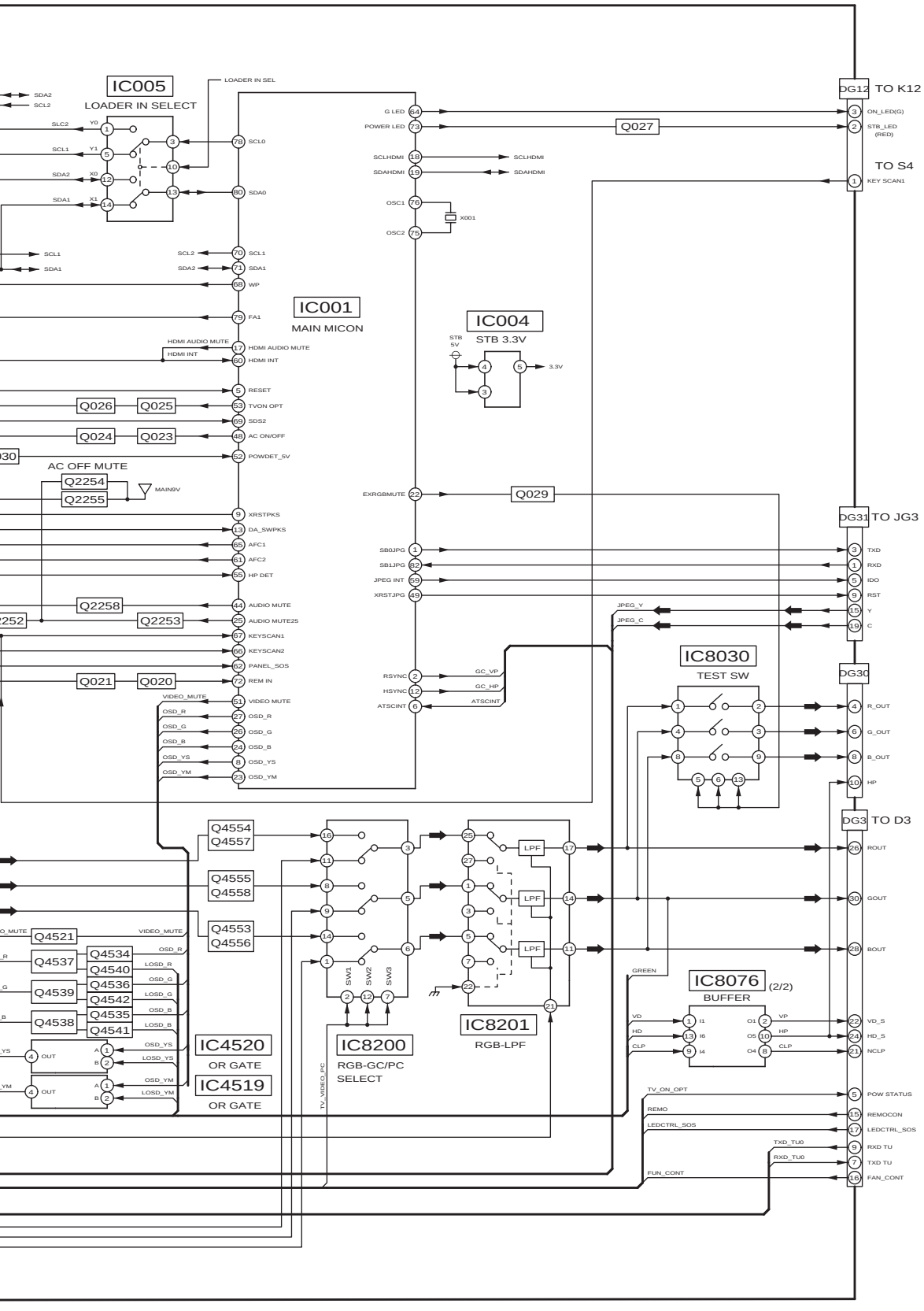
TH-37/42PD25U/P
DG-Board Block Diagram



TH-37/42PD25U/P
DG-Board Block Diagram

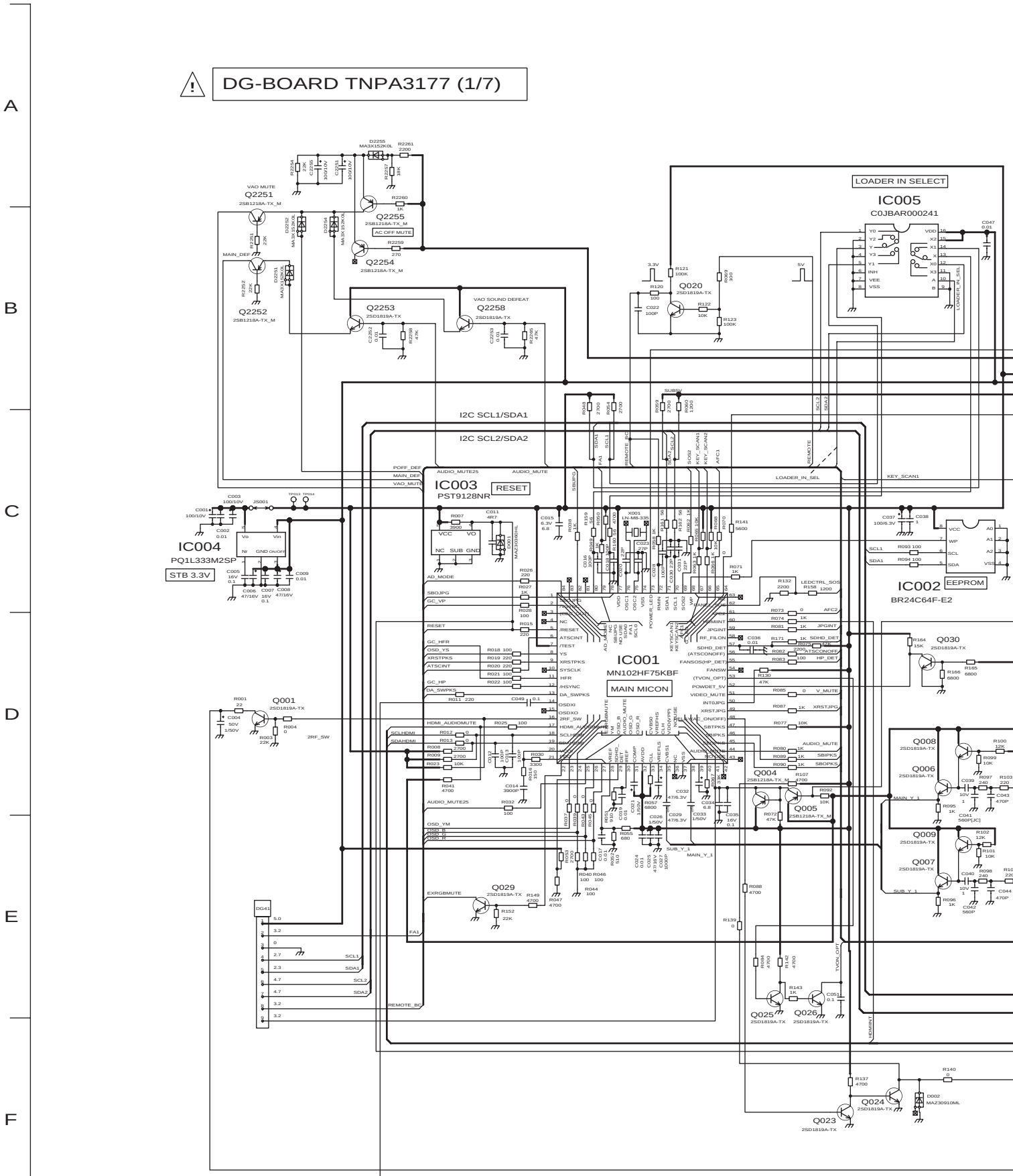


TH-37/42PD25U/P
DG-Board Block Diagram

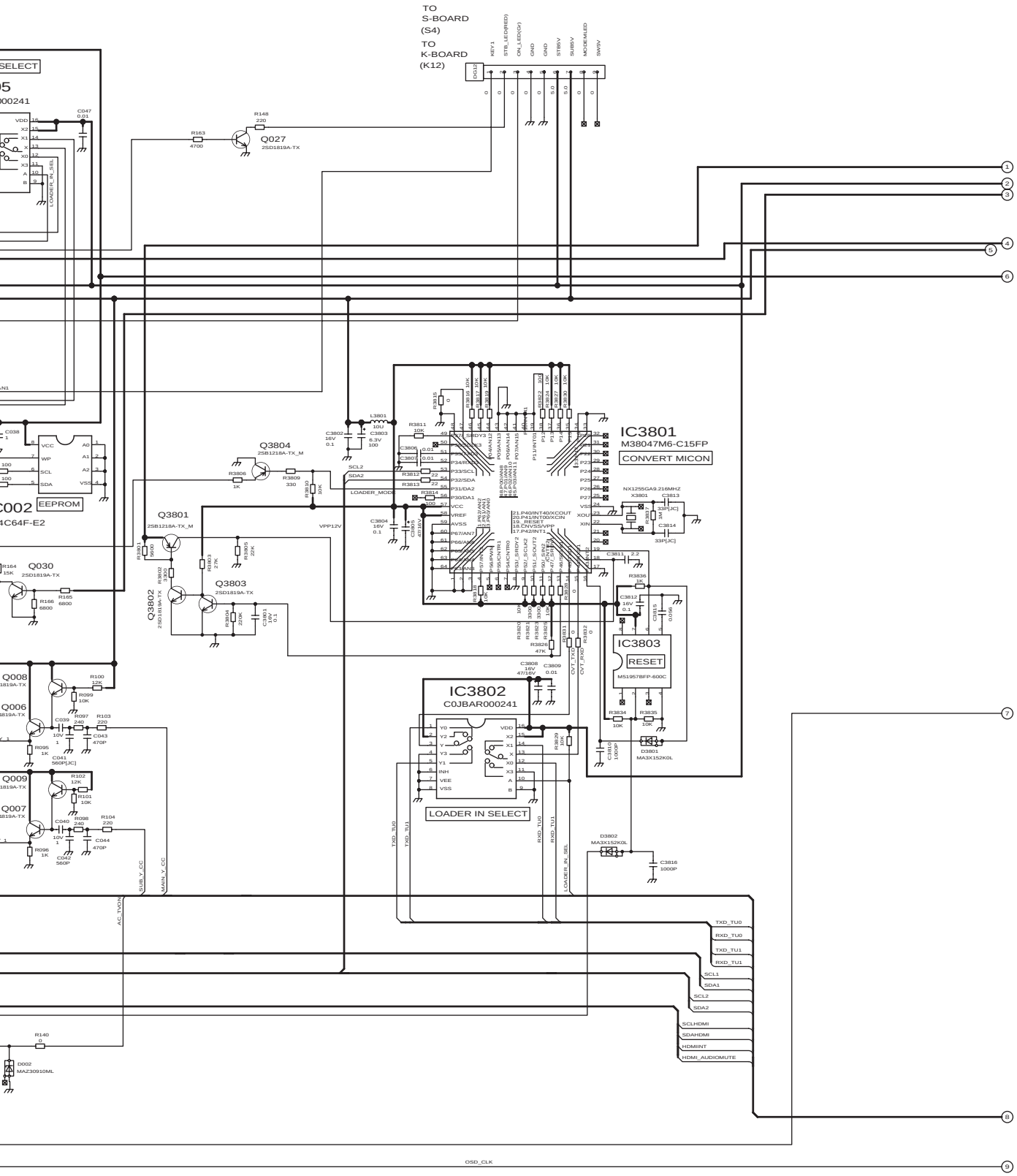


TH-37/42PD25U/P
DG-Board Block Diagram

15.24. DG-Board (1 of 7) Schematic Diagram



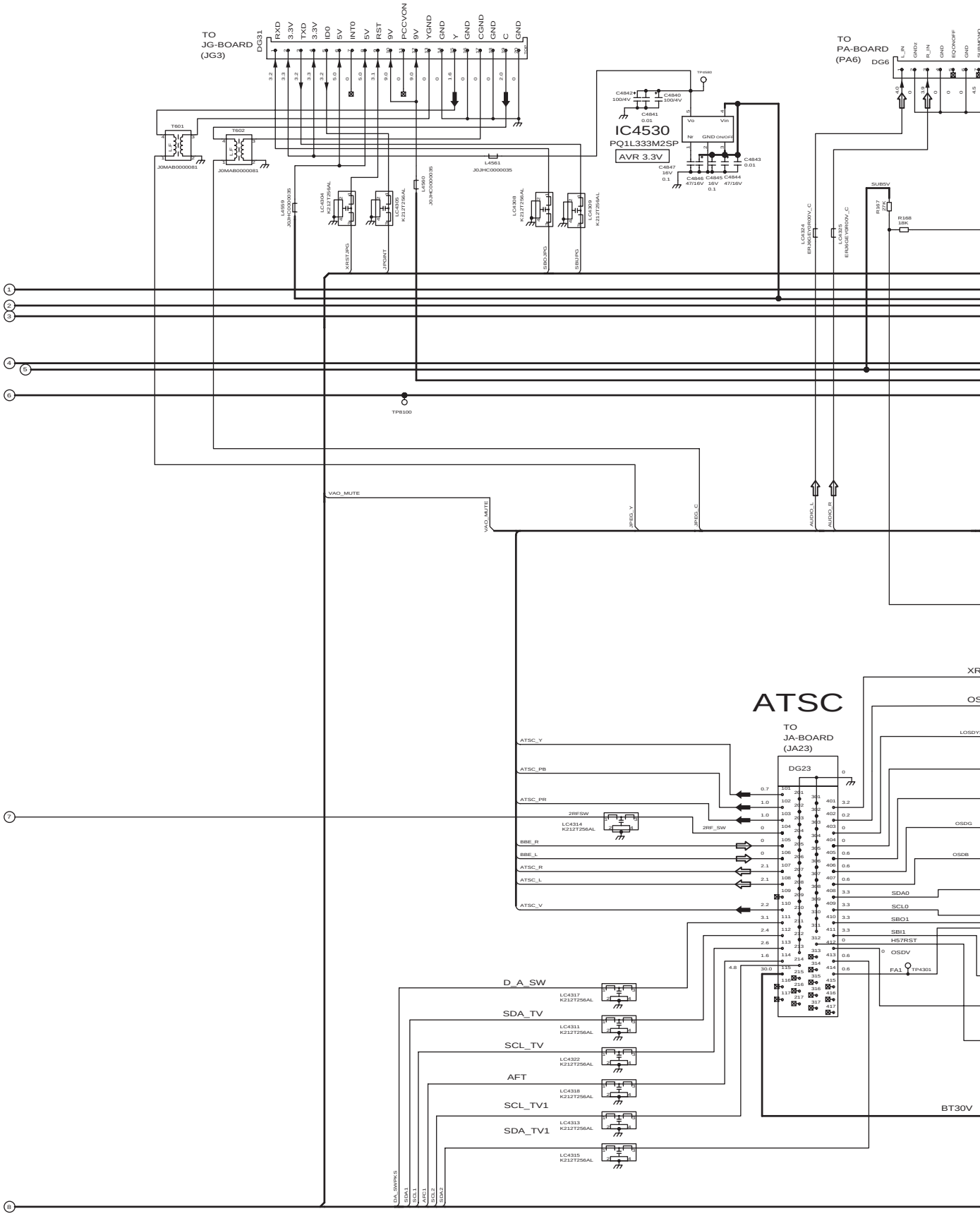
TH-37/42PD25U/P
DG-Board (1 of 7) Schematic Diagram



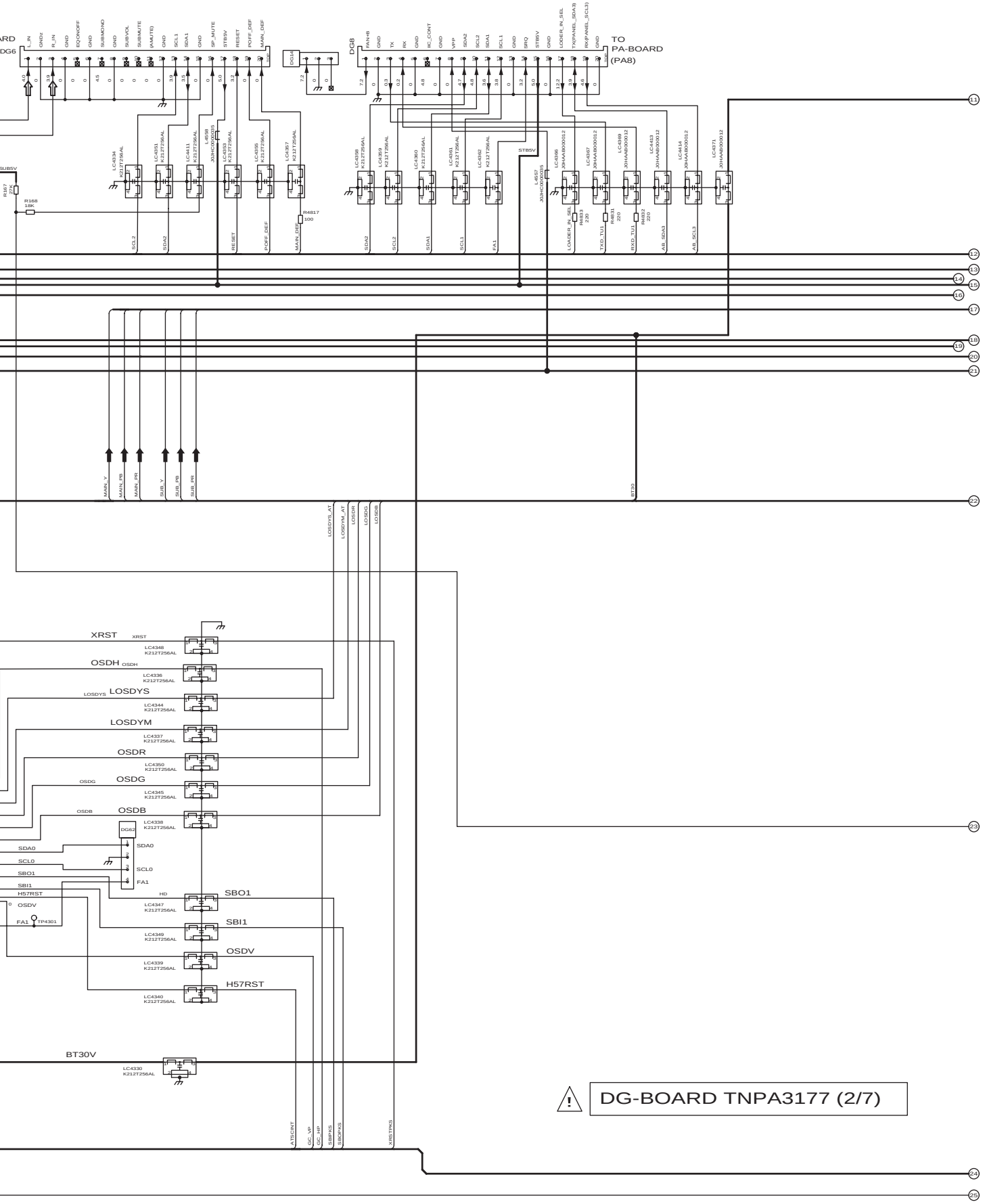
TH-37/42PD25U/P DG-Board (1 of 7) Schematic Diagram

5 6 7 8 9

15.25. DG-Board (2 of 7) Schematic Diagram



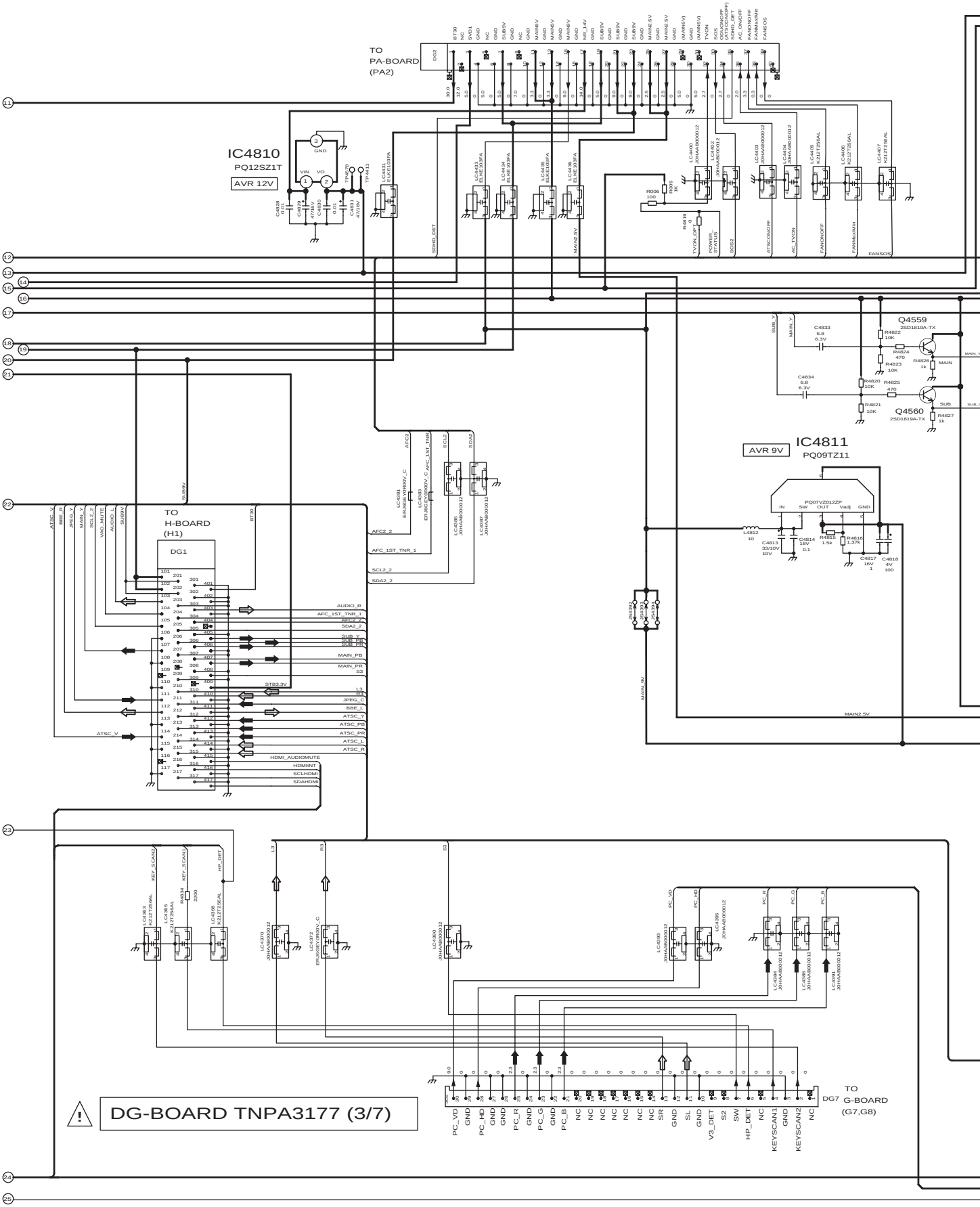
TH-37/42PD25U/P DG-Board (2 of 7) Schematic Diagram



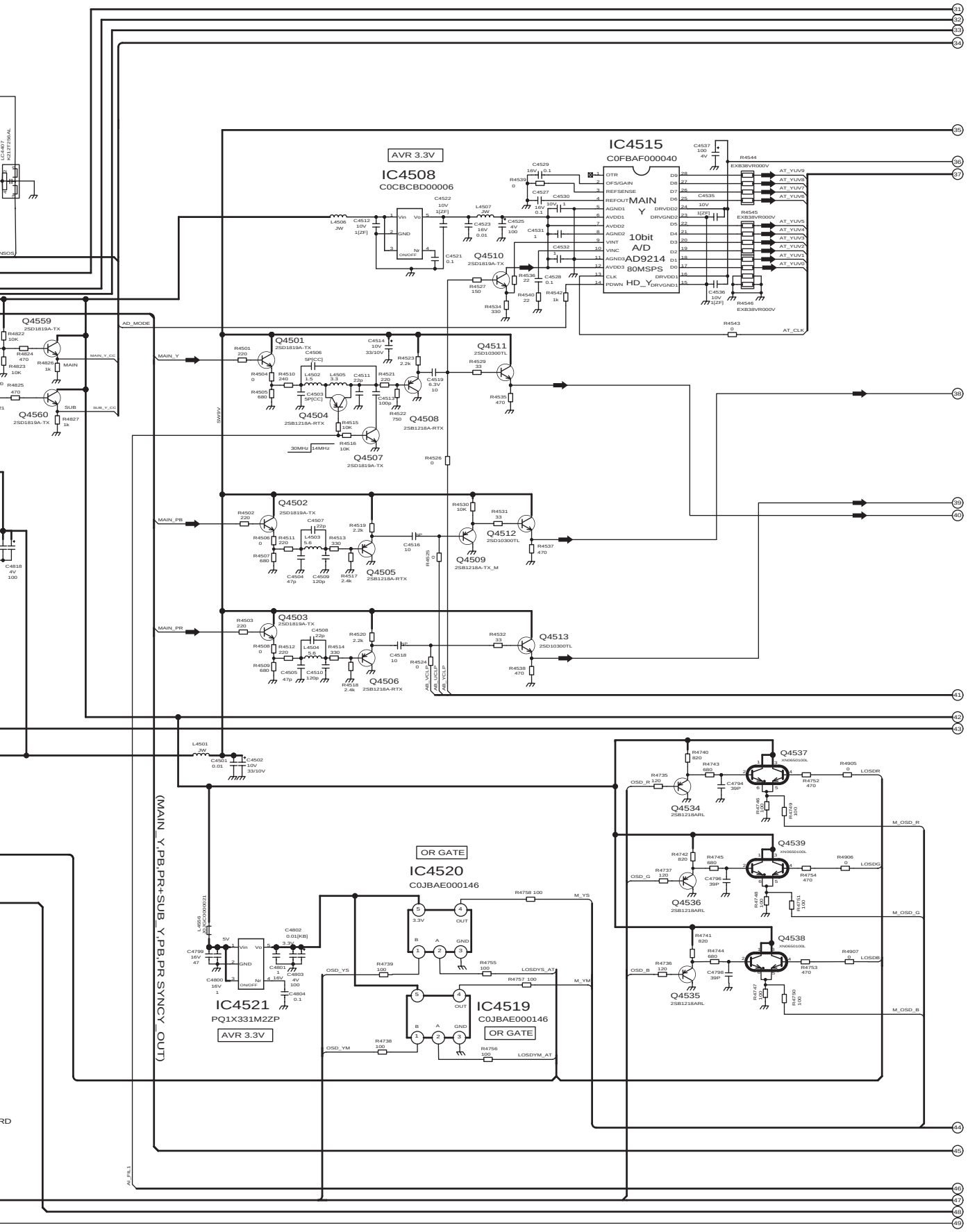
TH-37/42PD25U/P DG-Board (2 of 7) Schematic Diagram

14 | 15 | 16 | 17 | 18

15.26. DG-Board (3 of 7) Schematic Diagram

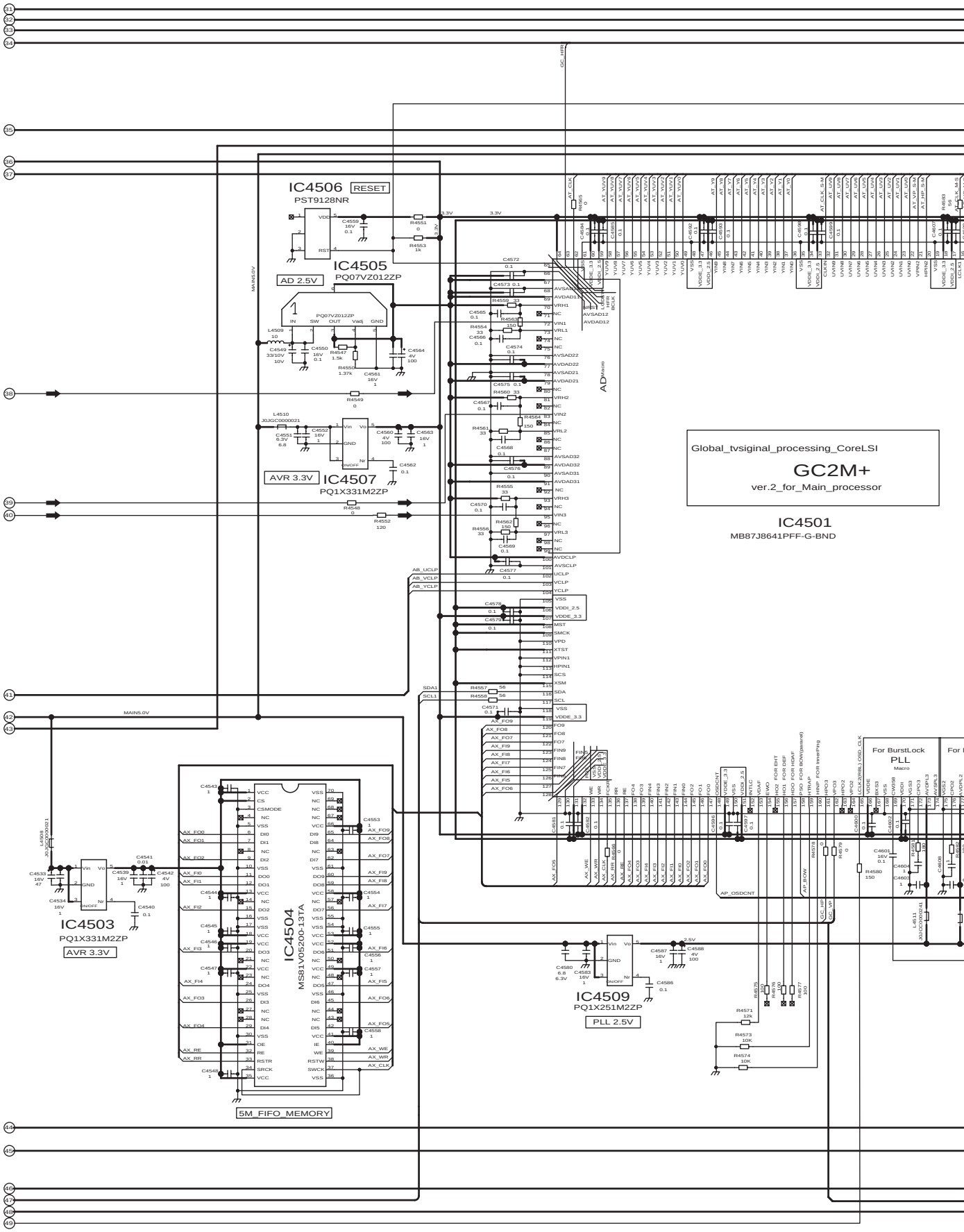


TH-37/42PD25U/P DG-Board (3 of 7) Schematic Diagram



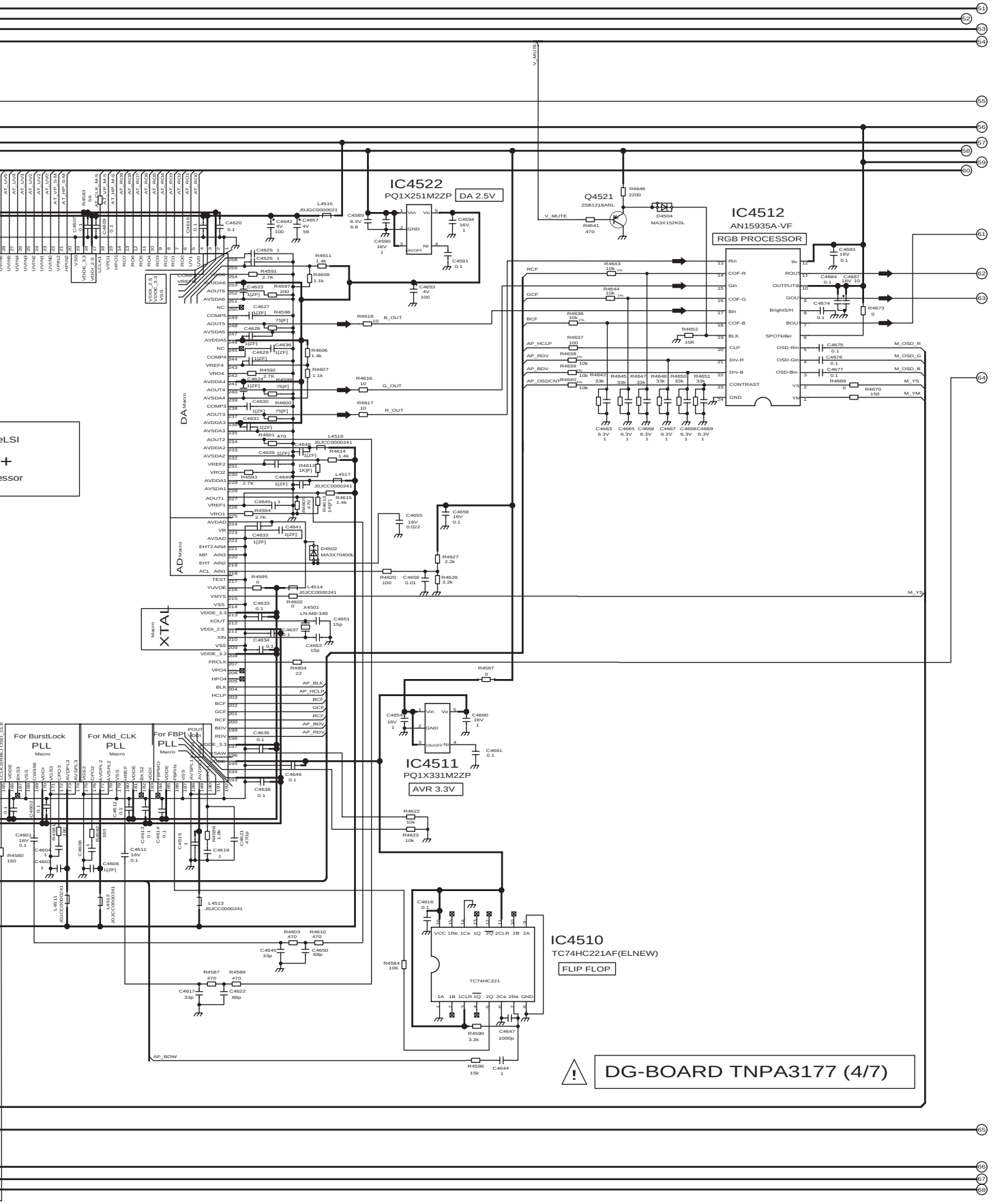
TH-37/42PD25U/P DG-Board (3 of 7) Schematic Diagram

15.27. DG-Board (4 of 7) Schematic Diagram



TH-37/42PD25U/P DG-Board (4 of 7) Schematic Diagram

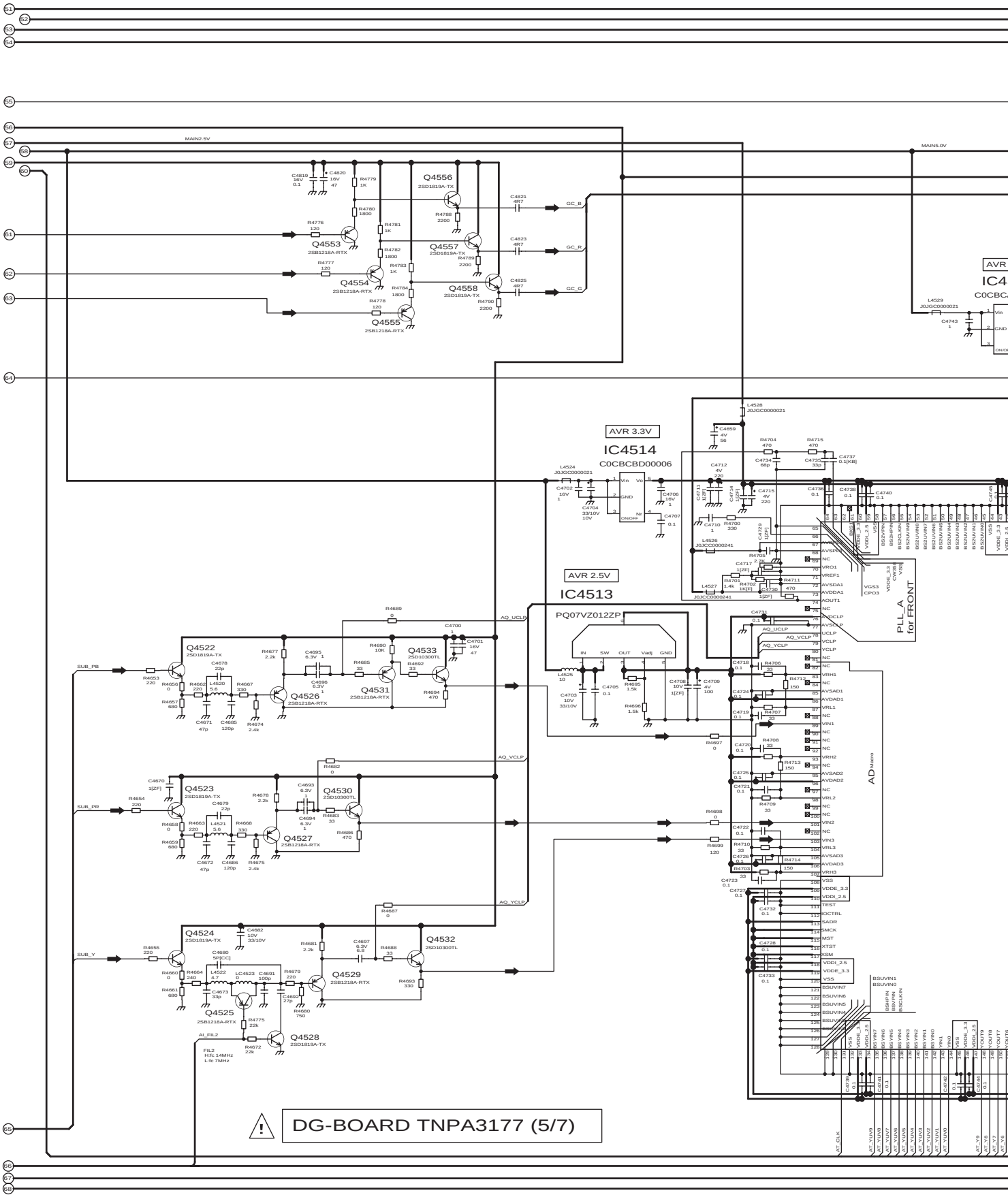
28	29	30	31	32



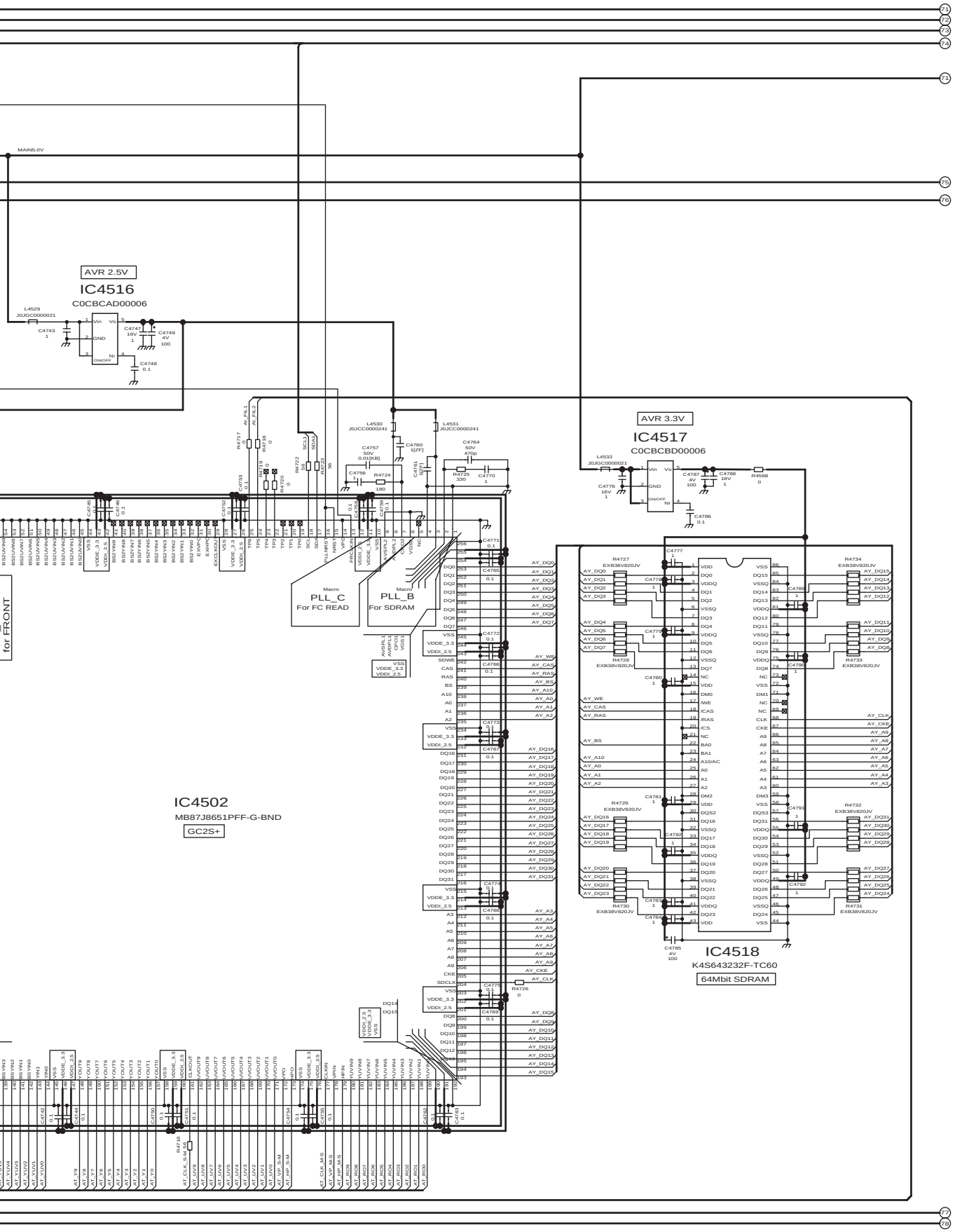
TH-37/42PD25U/P DG-Board (4 of 7) Schematic Diagram

32 33 34 35 36

15.28. DG-Board (5 of 7) Schematic Diagram



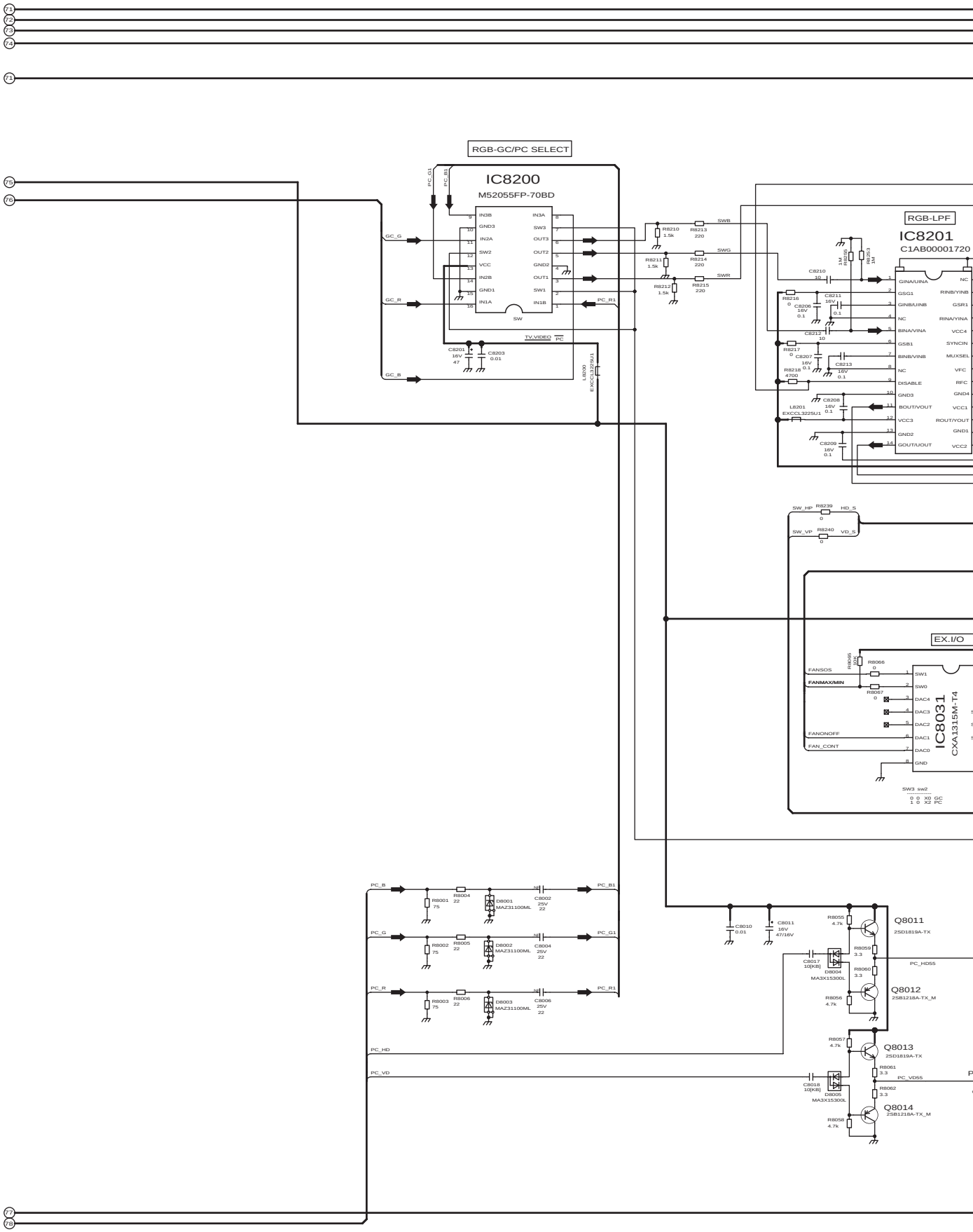
TH-37/42PD25U/P DG-Board (5 of 7) Schematic Diagram



TH-37/42PD25U/P DG-Board (5 of 7) Schematic Diagram

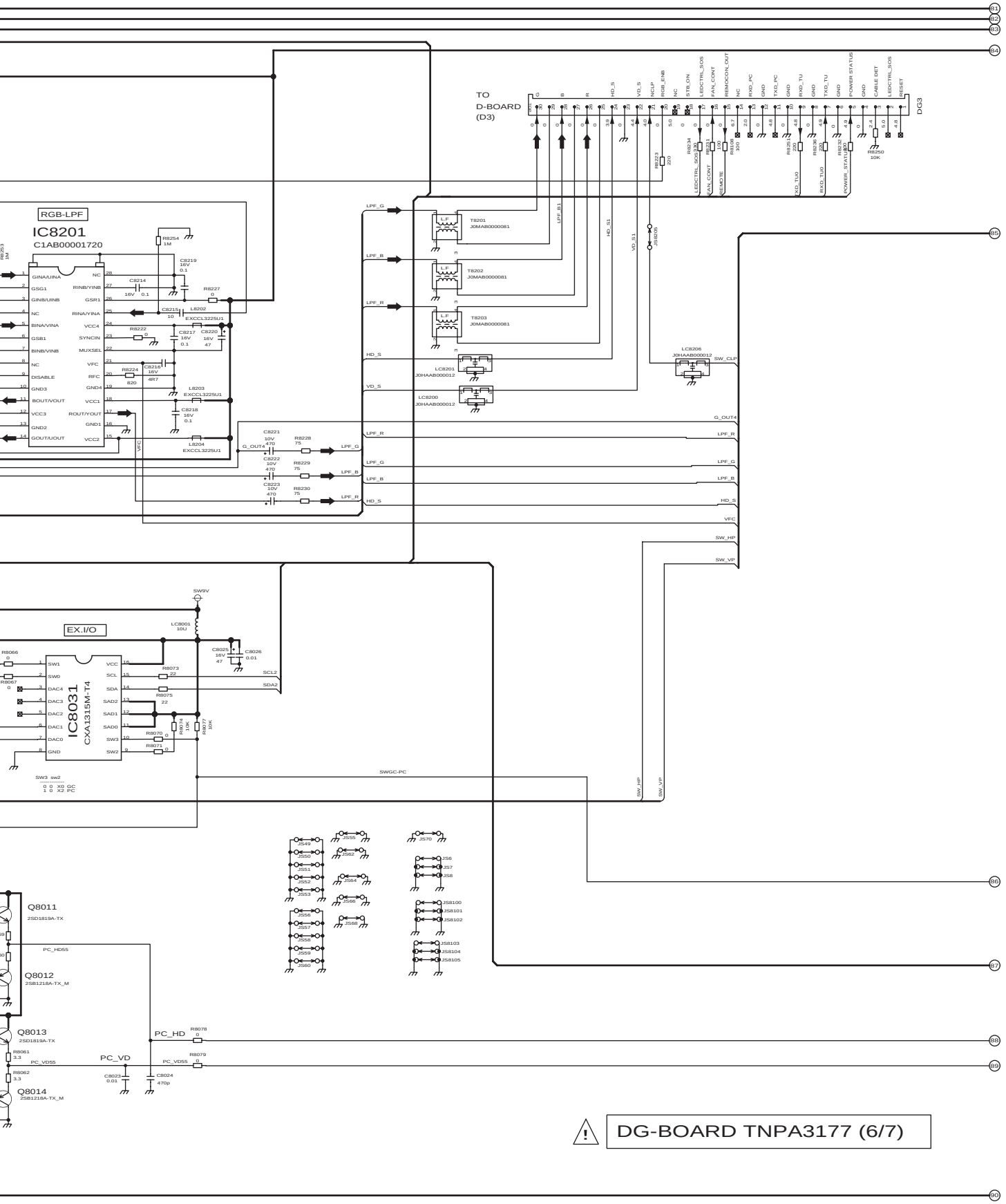
41 | 42 | 43 | 44 | 45

15.29. DG-Board (6 of 7) Schematic Diagram



TH-37/42PD25U/P DG-Board (6 of 7) Schematic Diagram

46 47 48 49 50

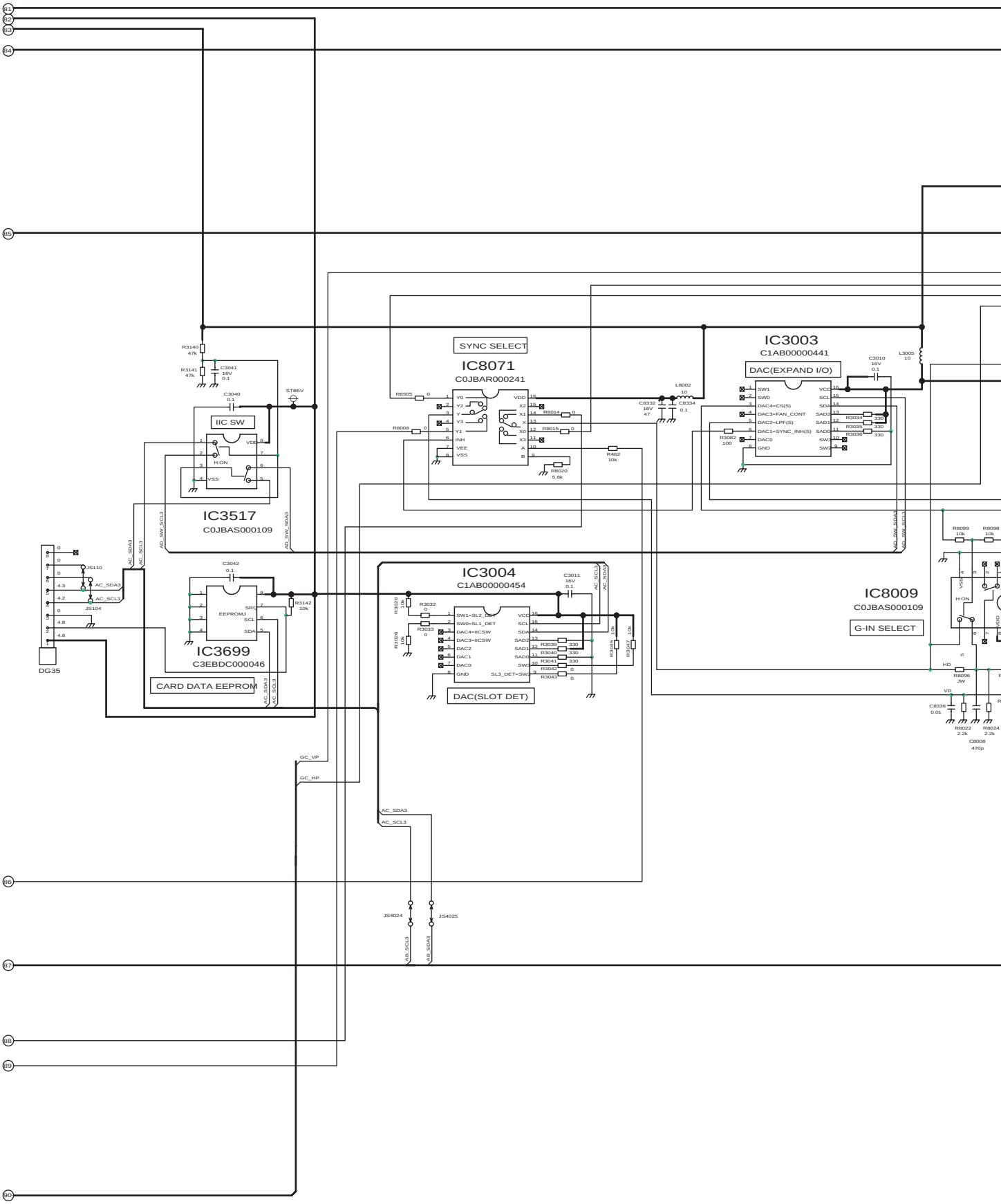


DG-BOARD TNPA3177 (6/7)

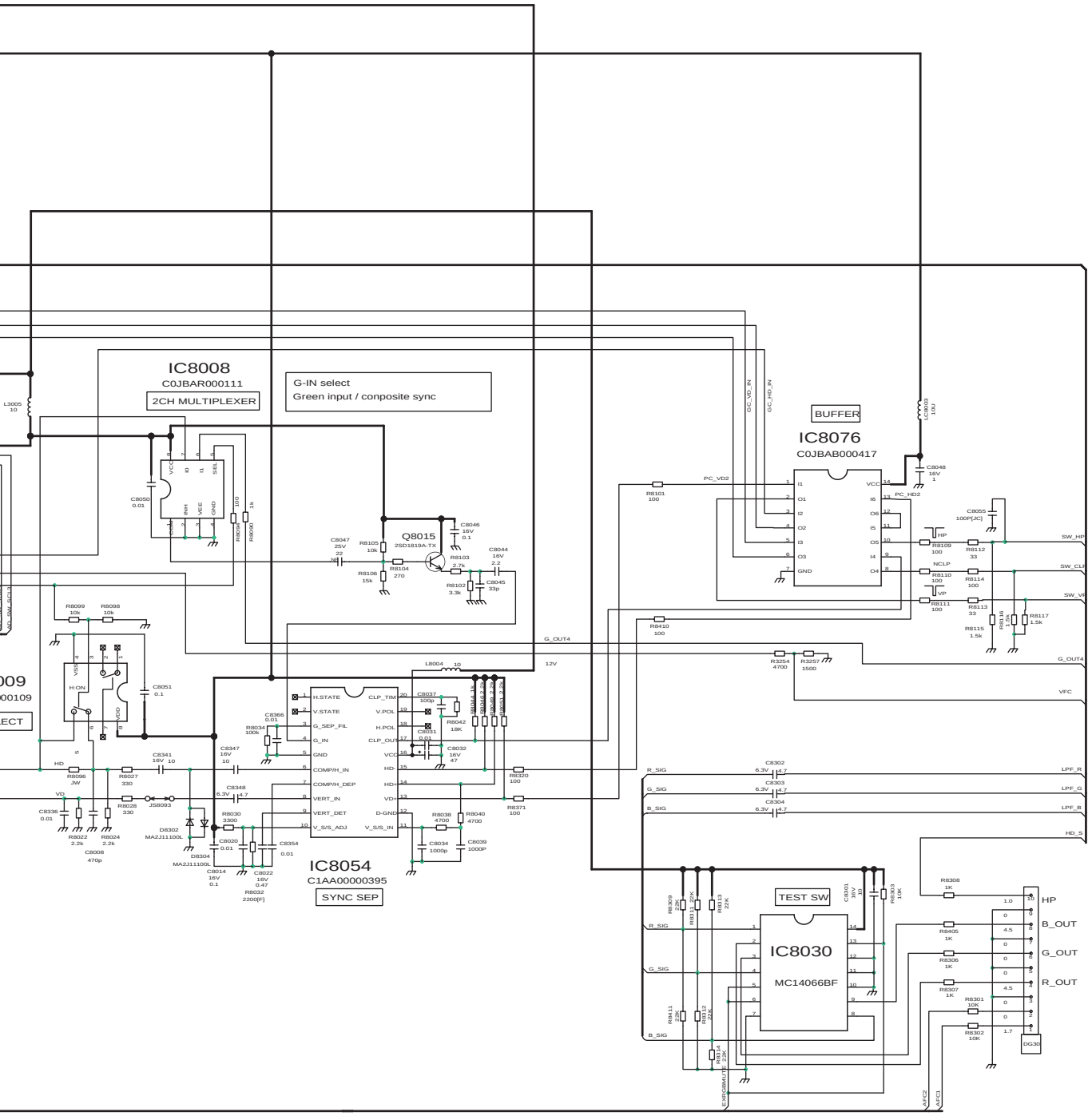
TH-37/42PD25U/P DG-Board (6 of 7) Schematic Diagram

50	51	52	53	54

15.30. DG-Board (7 of 7) Schematic Diagram



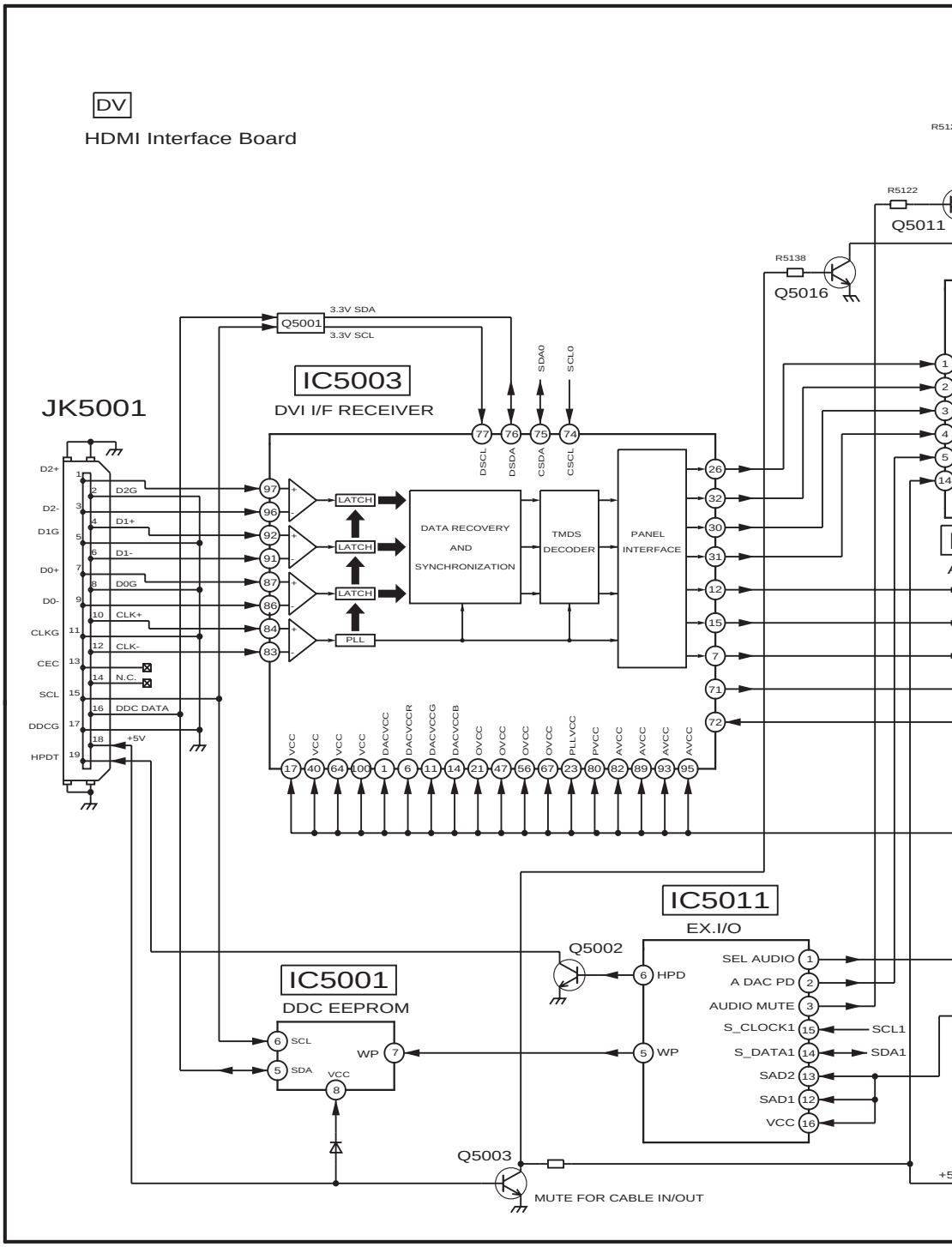
TH-37/42PD25U/P
DG-Board (7 of 7) Schematic Diagram

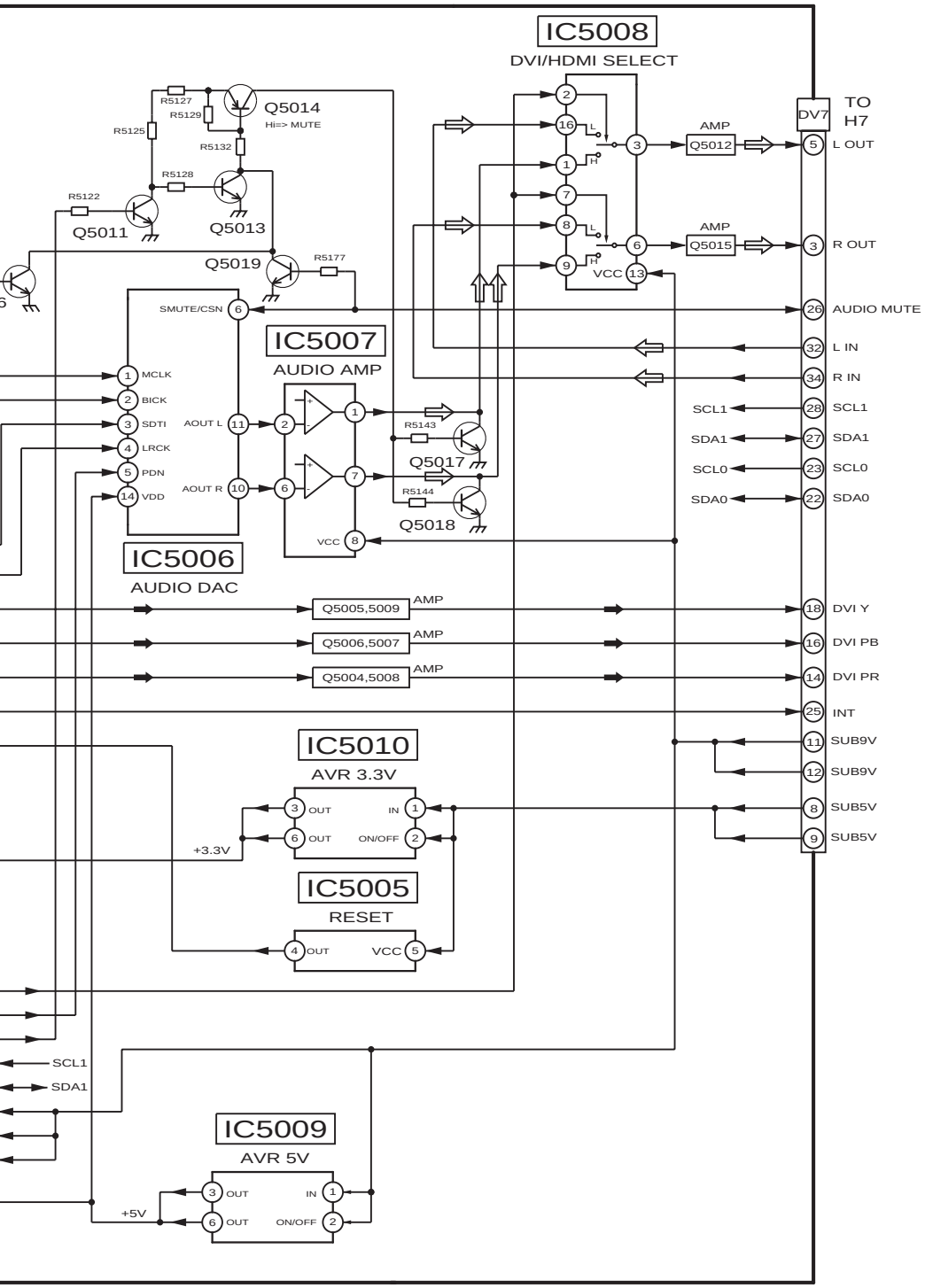


DG-BOARD TNPA3177 (7/7)

TH-37/42PD25U/P
DG-Board (7 of 7) Schematic Diagram

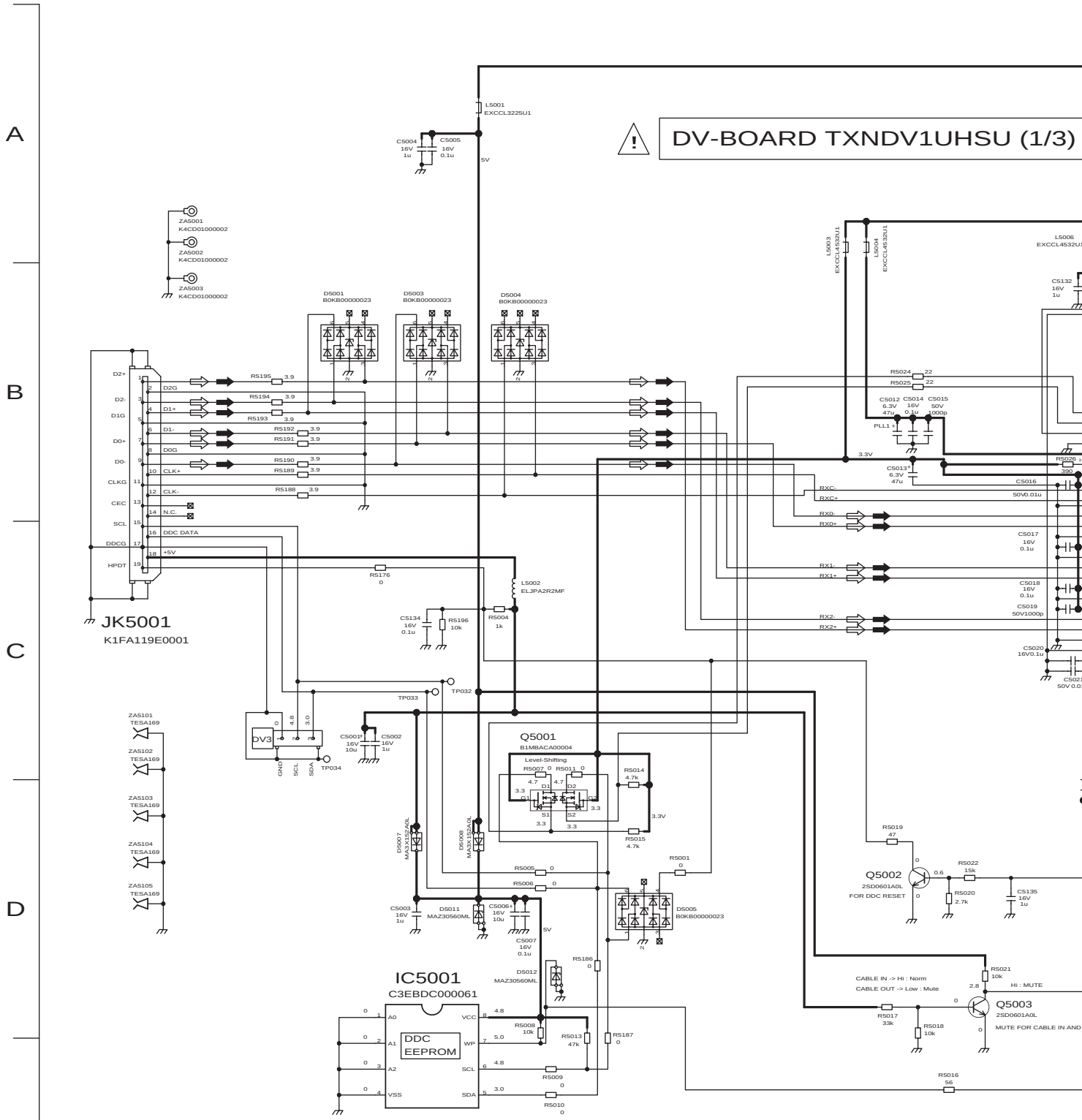
15.31. DV-Board Block Diagram



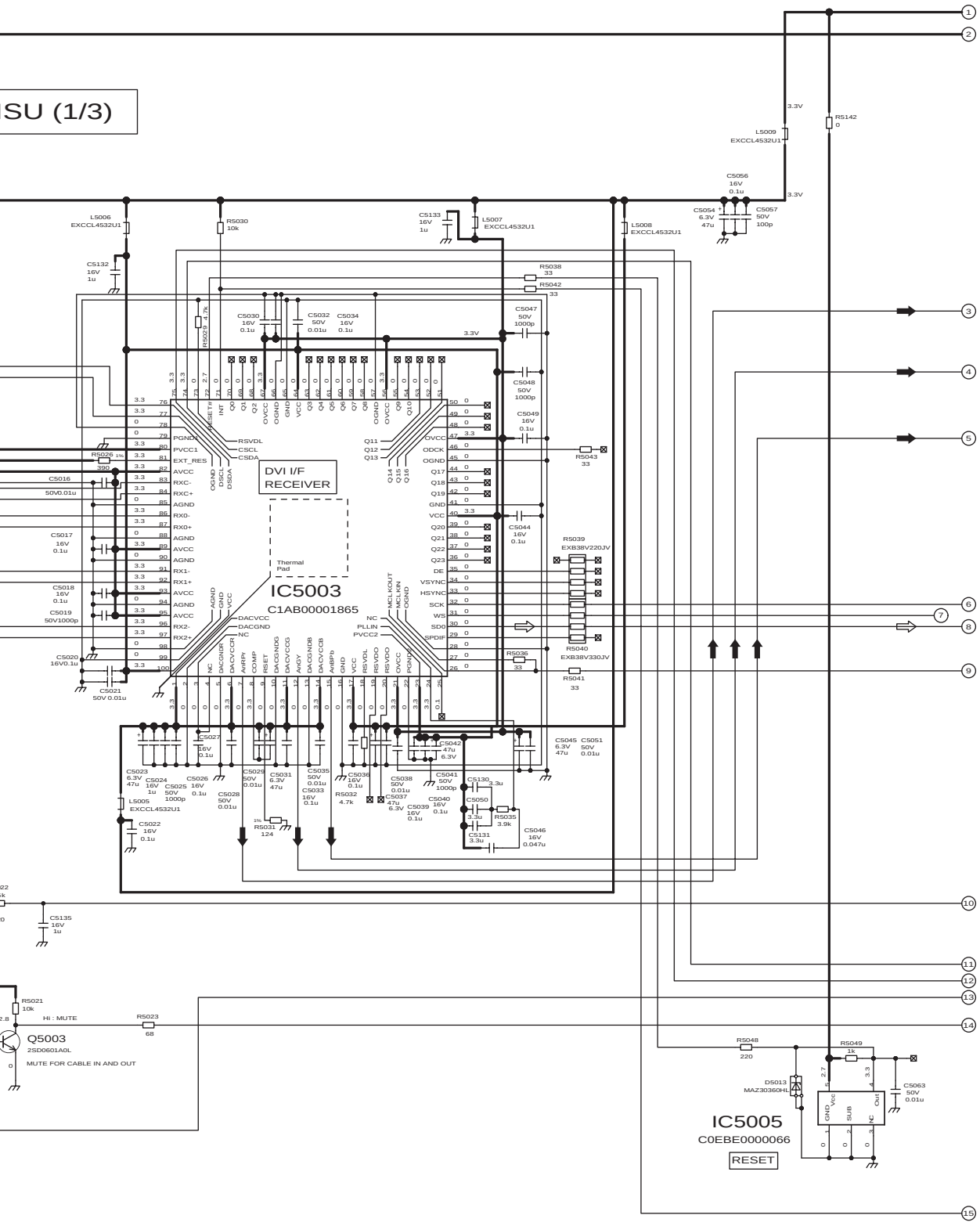


TH-37/42PD25U/P
DV-Board Block Diagram

15.32. DV-Board (1 of 3) Schematic Diagram



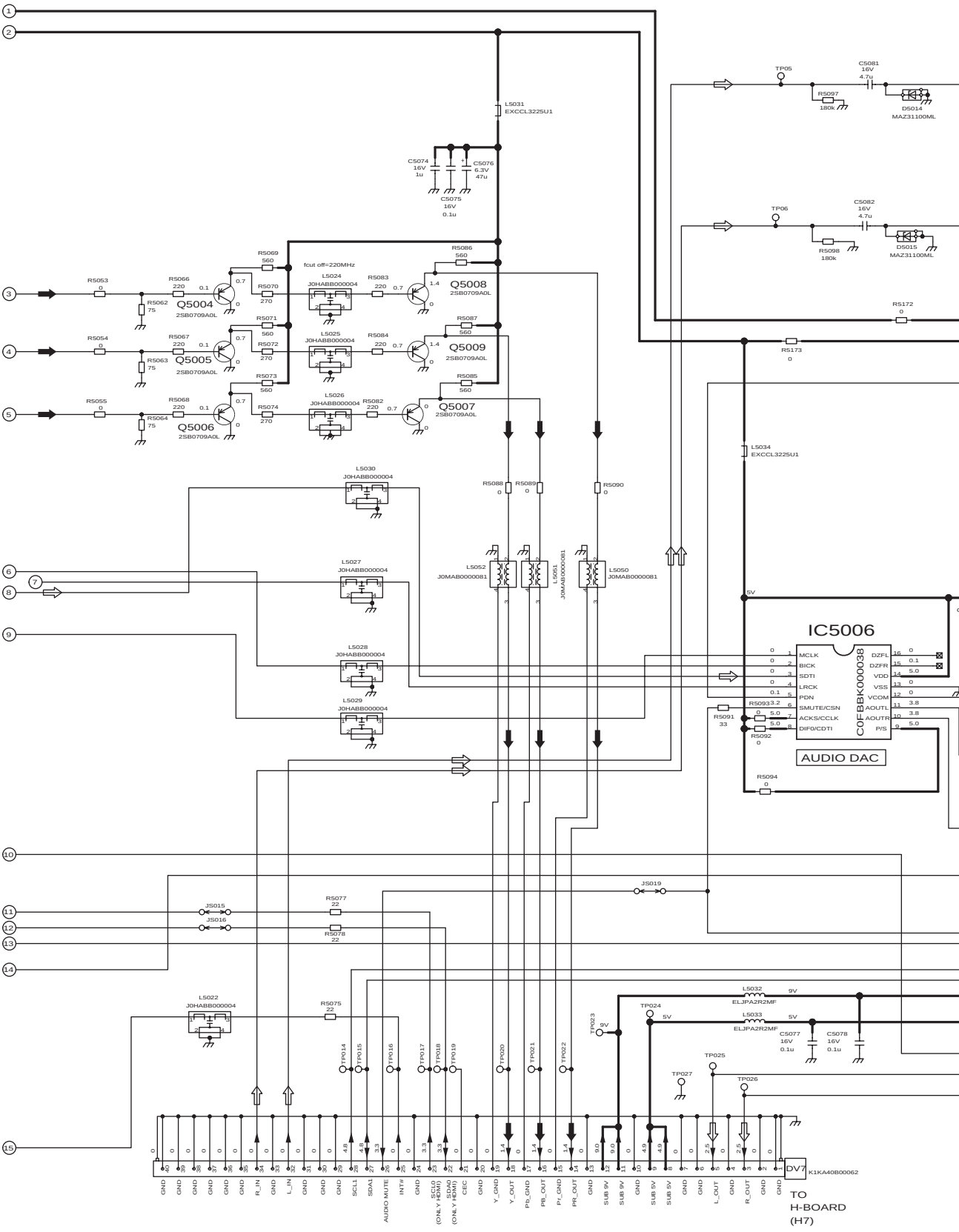
TH-37/42PD25U/P
DV-Board (1 of 3) Schematic Diagram



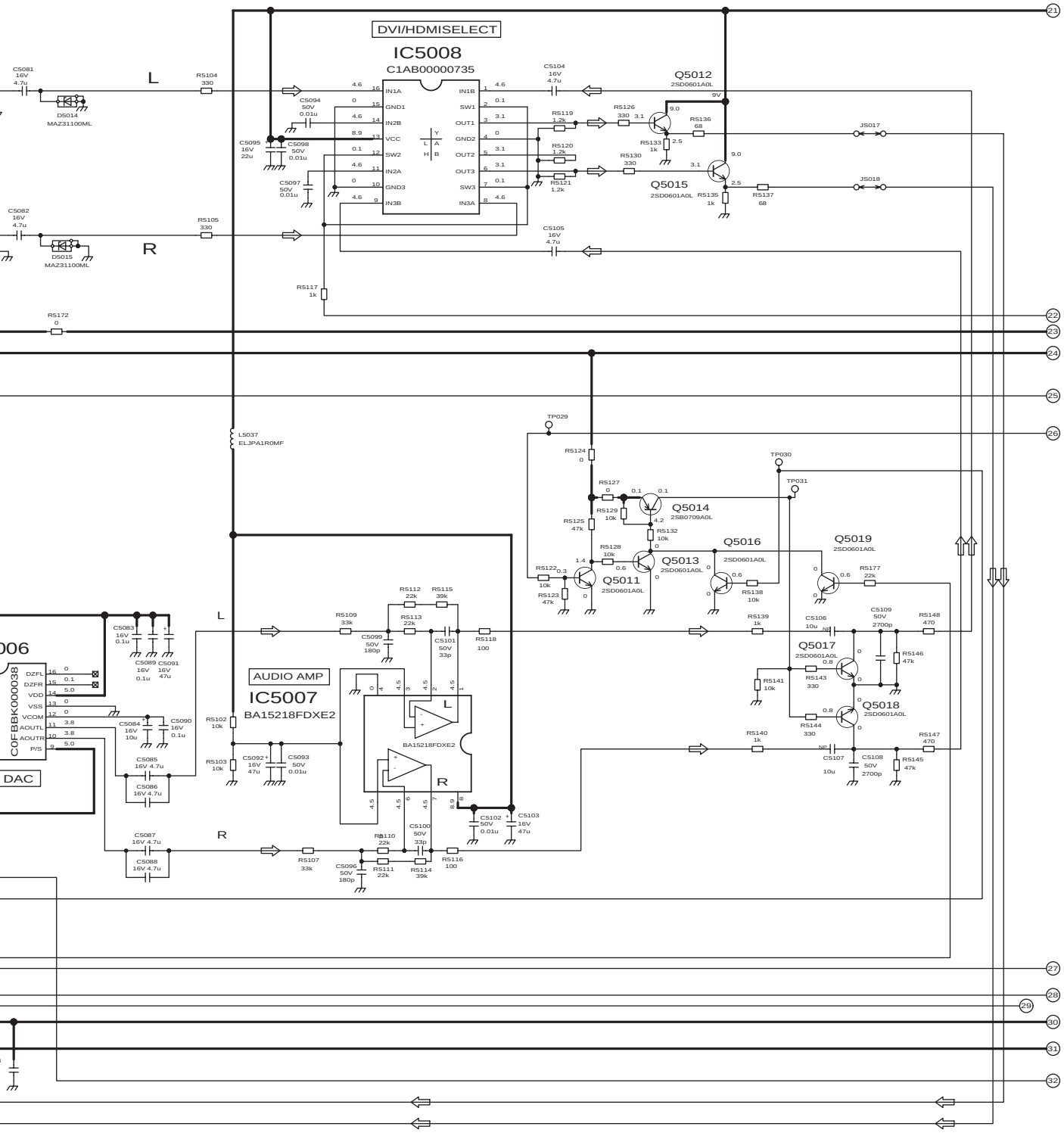
TH-37/42PD25U/P
DV-Board (1 of 3) Schematic Diagram

5 6 7 8

15.33. DV-Board (2 of 3) Schematic Diagram



TH-37/42PD25U/P
DV-Board (2 of 3) Schematic Diagram

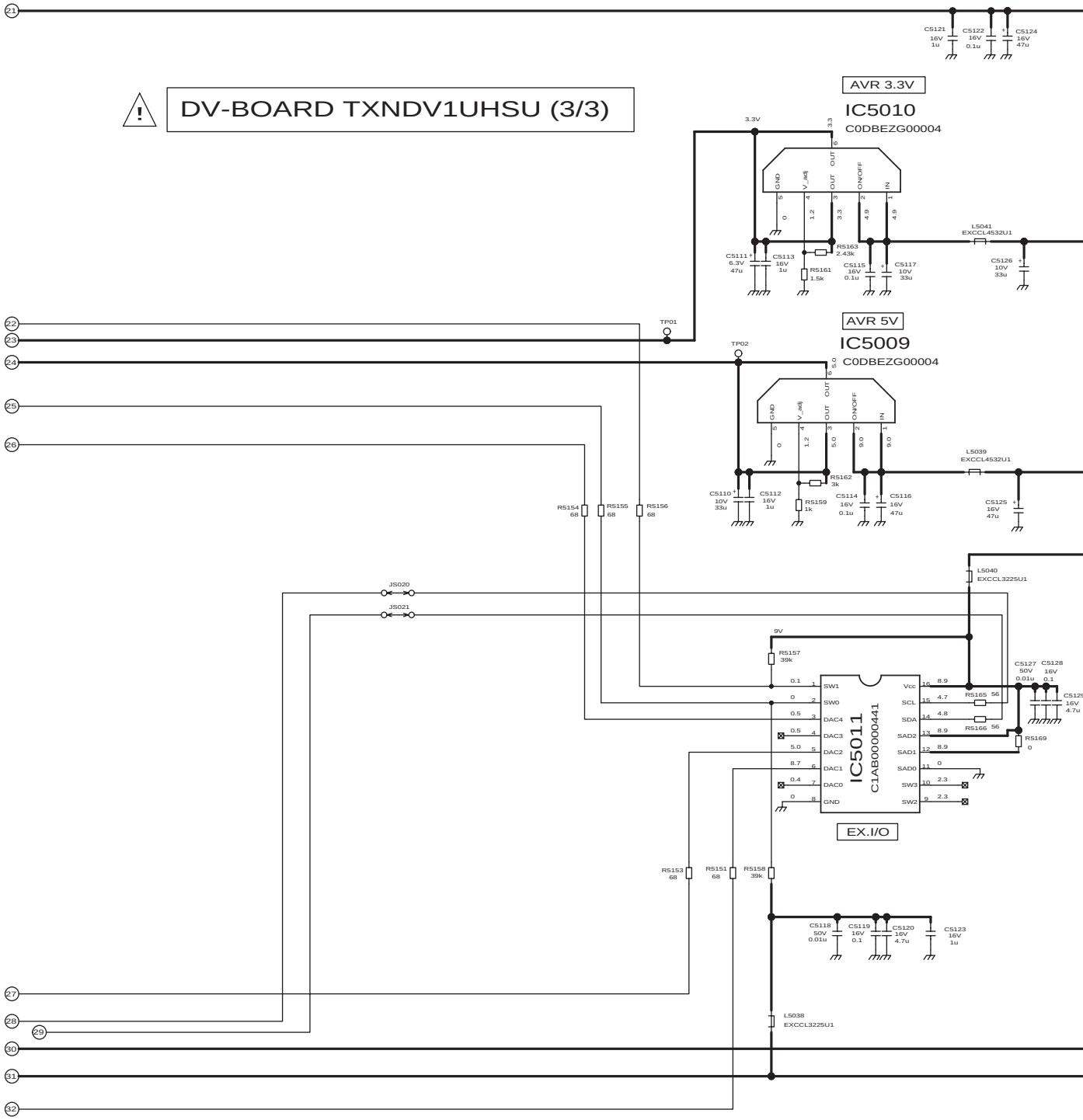


DV-BOARD TXNDV1UHSU (2/3)

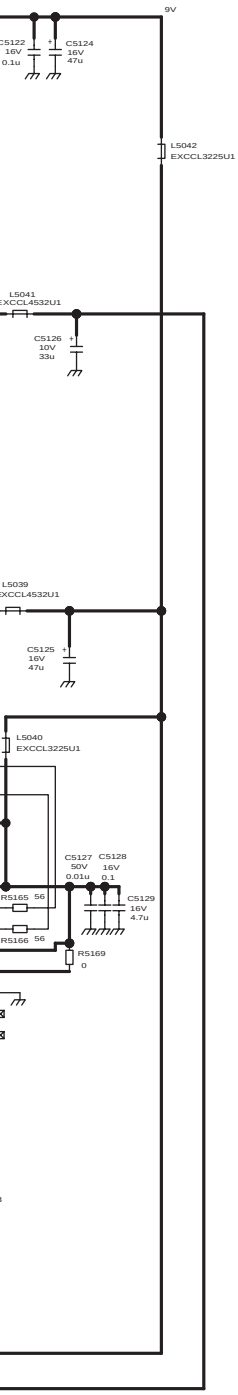
TH-37/42PD25U/P
DV-Board (2 of 3) Schematic Diagram

12 13 14 15

15.34. DV-Board (3 of 3) Schematic Diagram



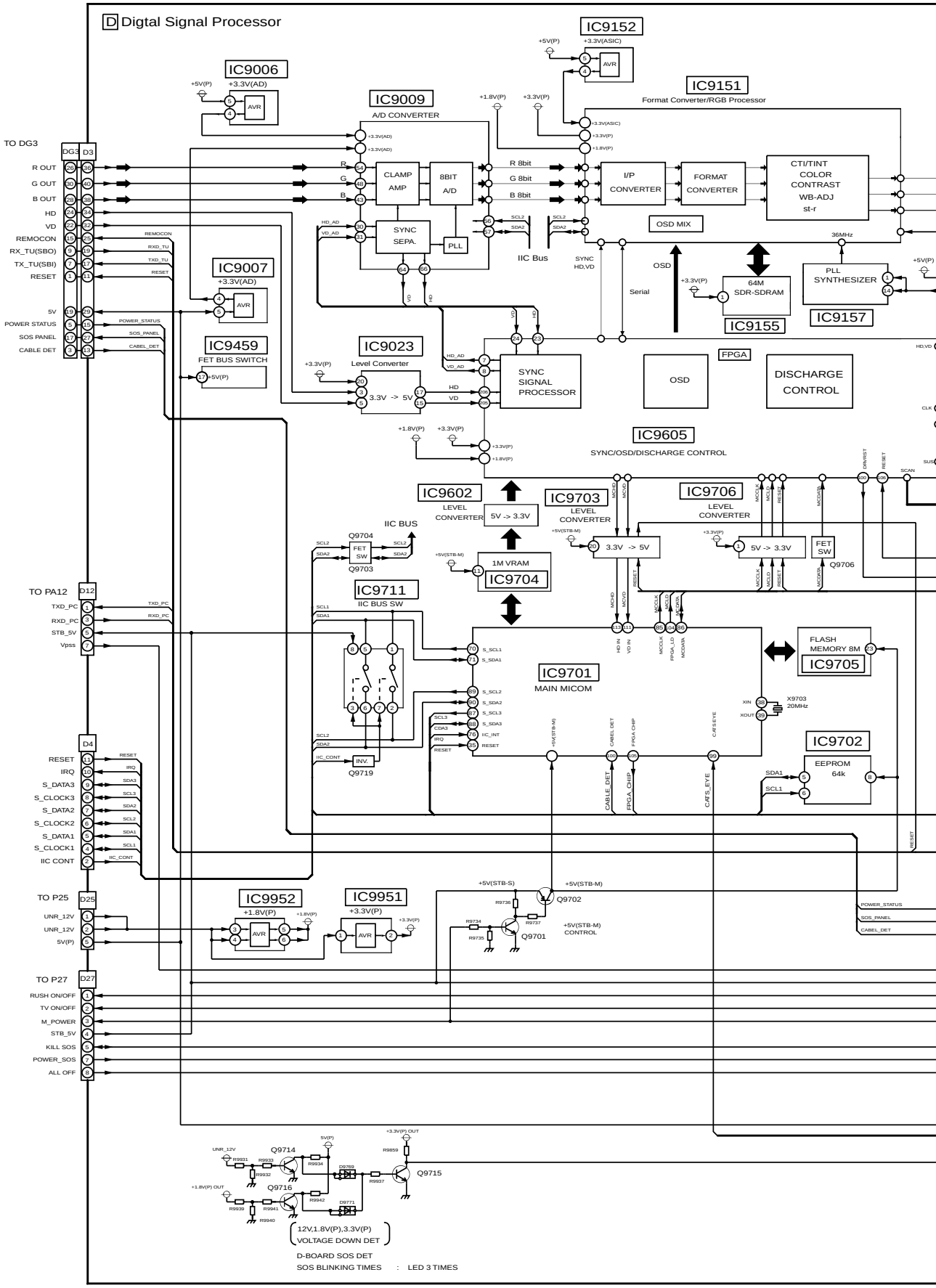
TH-37/42PD25U/P
DV-Board (3 of 3) Schematic Diagram



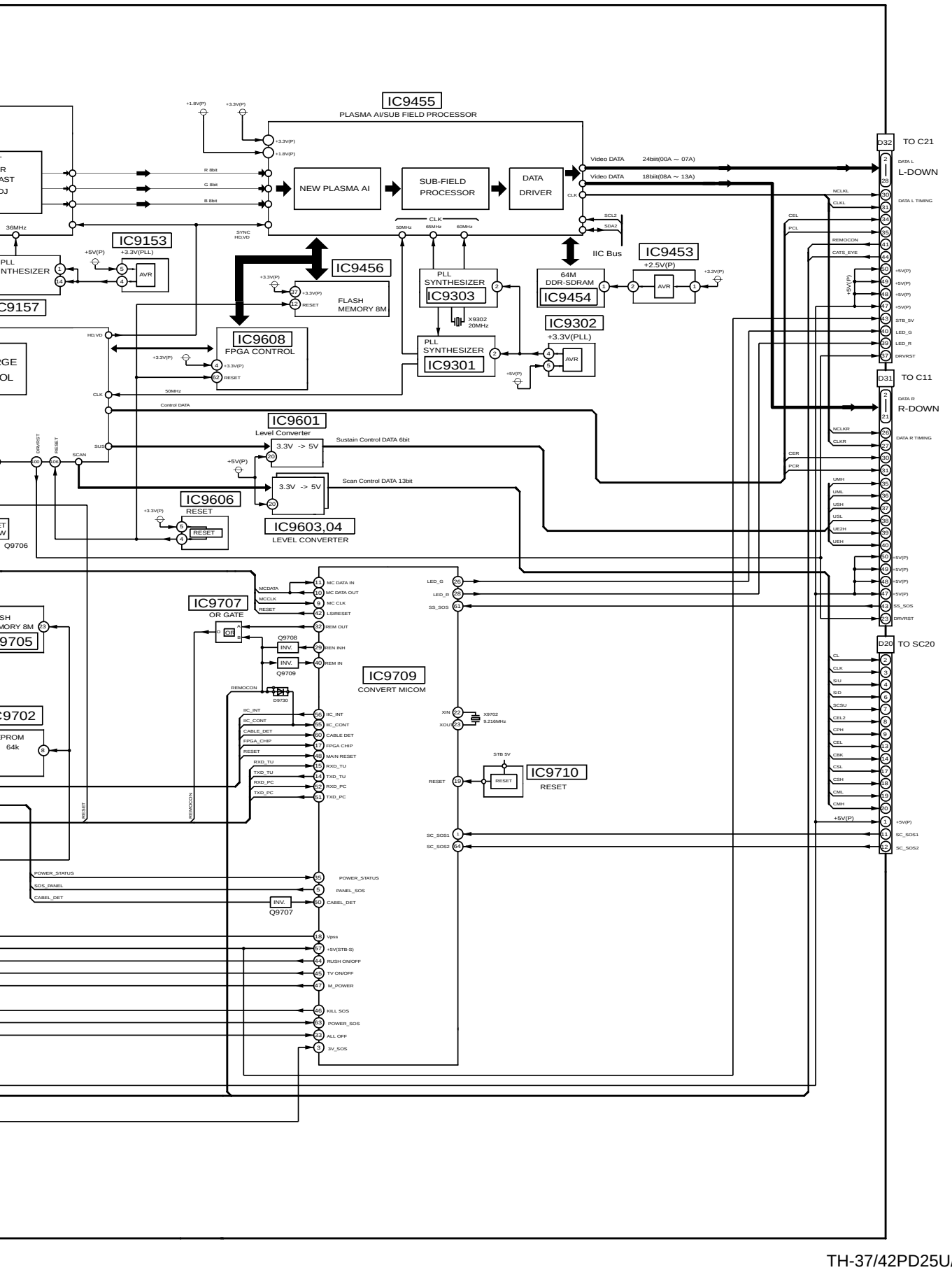
TH-37/42PD25U/P
DV-Board (3 of 3) Schematic Diagram

20 21 22 23

15.35. D-Board Block Diagram

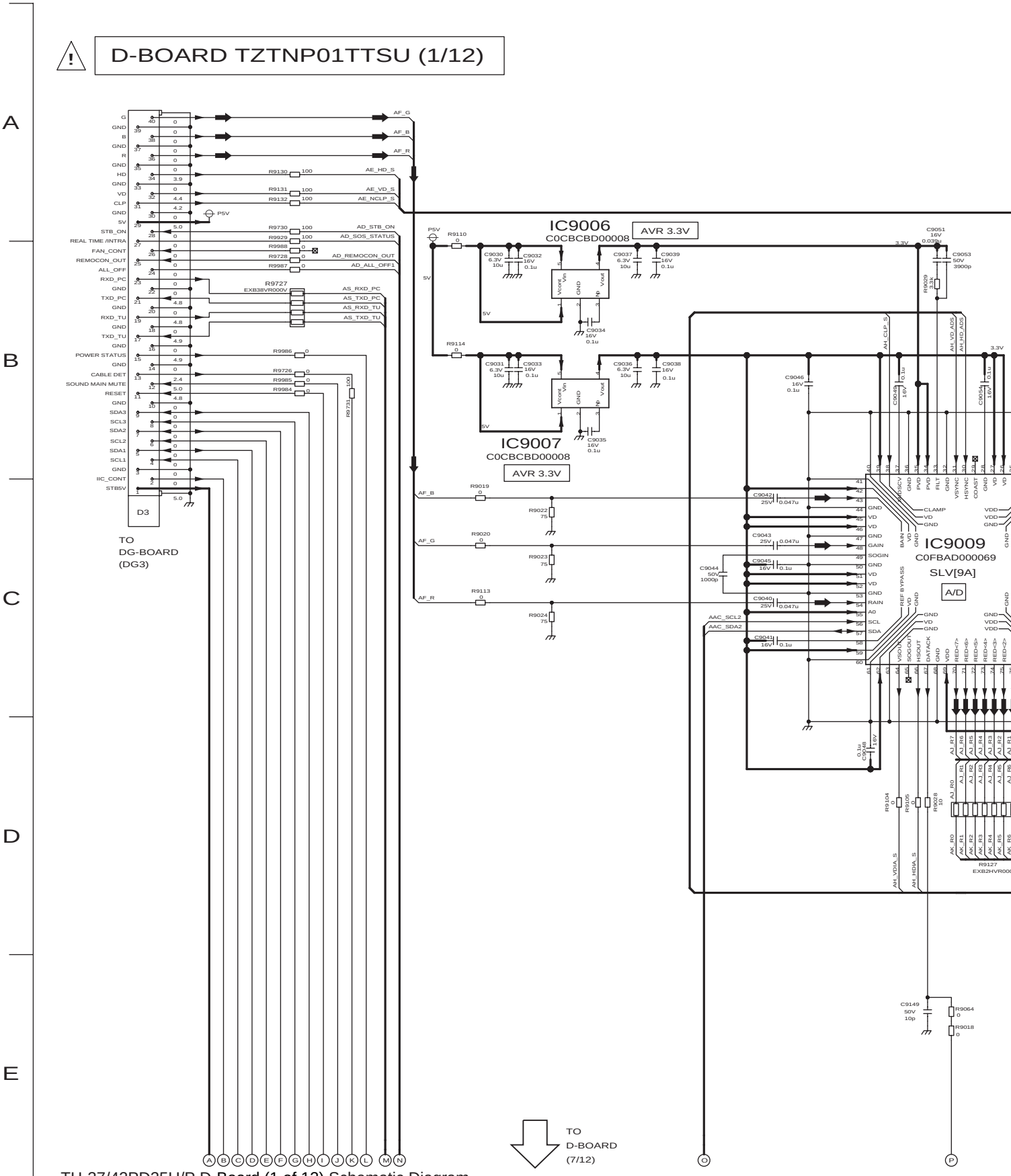


TH-37/42PD25U/P
D-Board Block Diagram

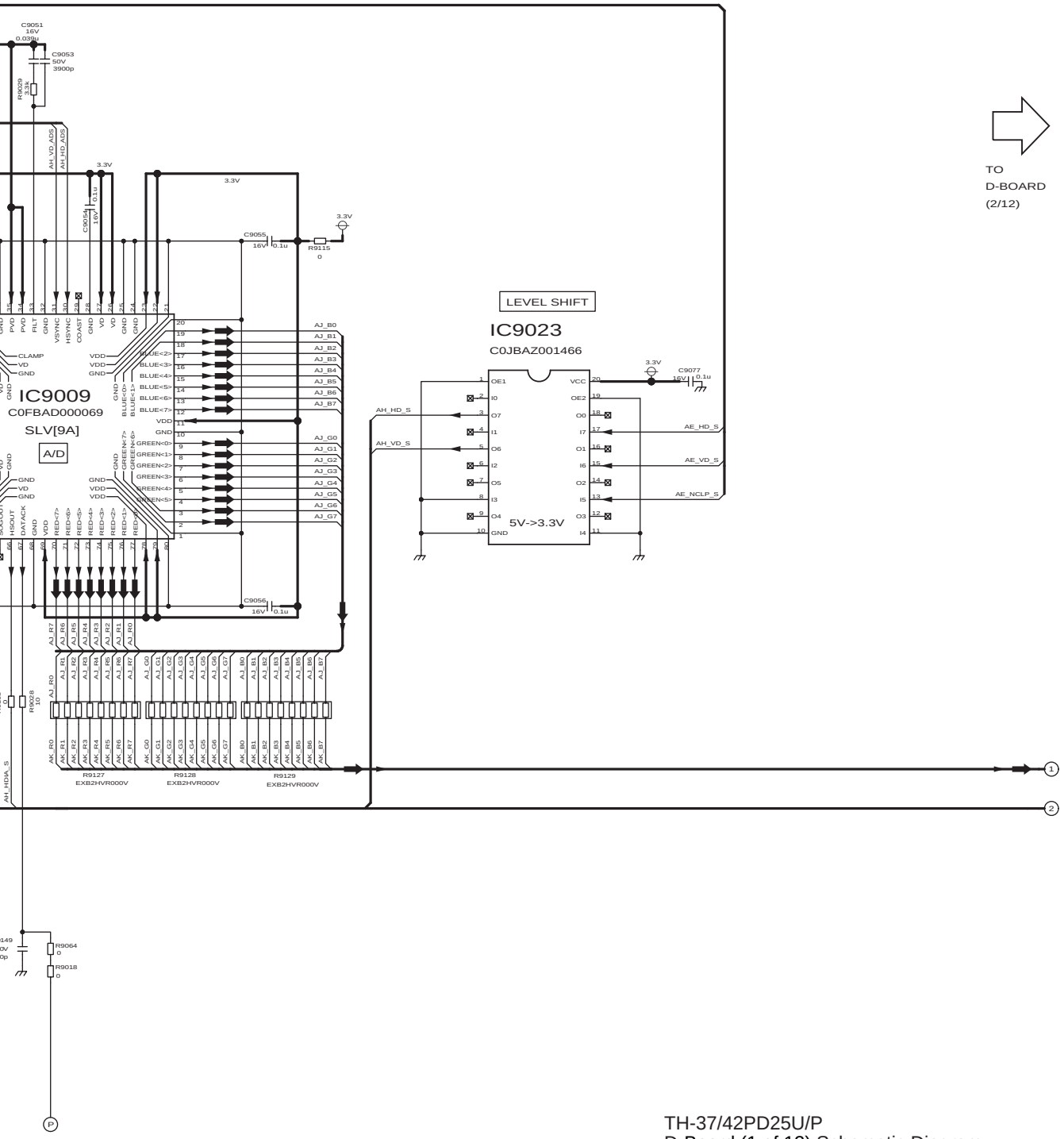


TH-37/42PD25U/P
D-Board Block Diagram

15.36. D-Board (1 of 12) Schematic Diagram



TH-37/42PD25U/P D-Board (1 of 12) Schematic Diagram

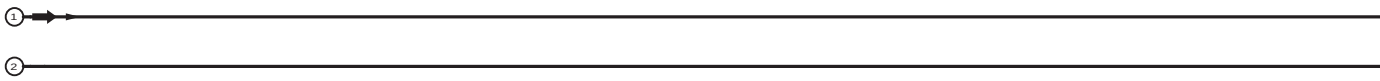


TH-37/42PD25U/P
D-Board (1 of 12) Schematic Diagram

15.37. D-Board (2 of 12) Schematic Diagram

D-BOARD TZTNP01TTSU (2/12)

TO
D-BOARD
(1/12)





TO
D-BOARD
(3/12)

11

12

TO
D-BOARD
(8/12)

AA

13

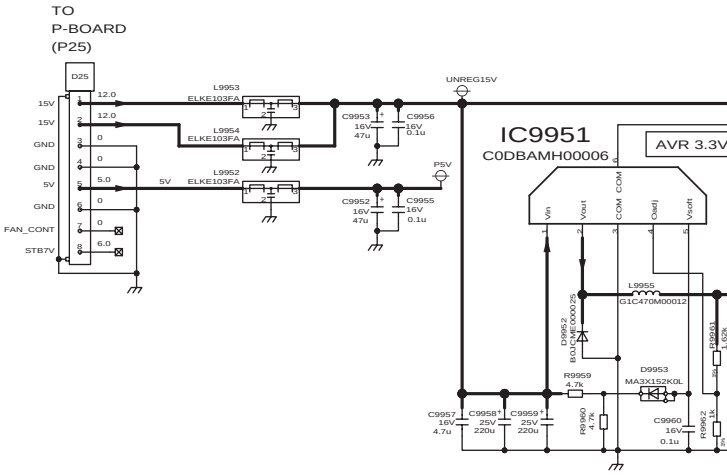
TH-37/42PD25U/P
D-Board (2 of 12) Schematic Diagram

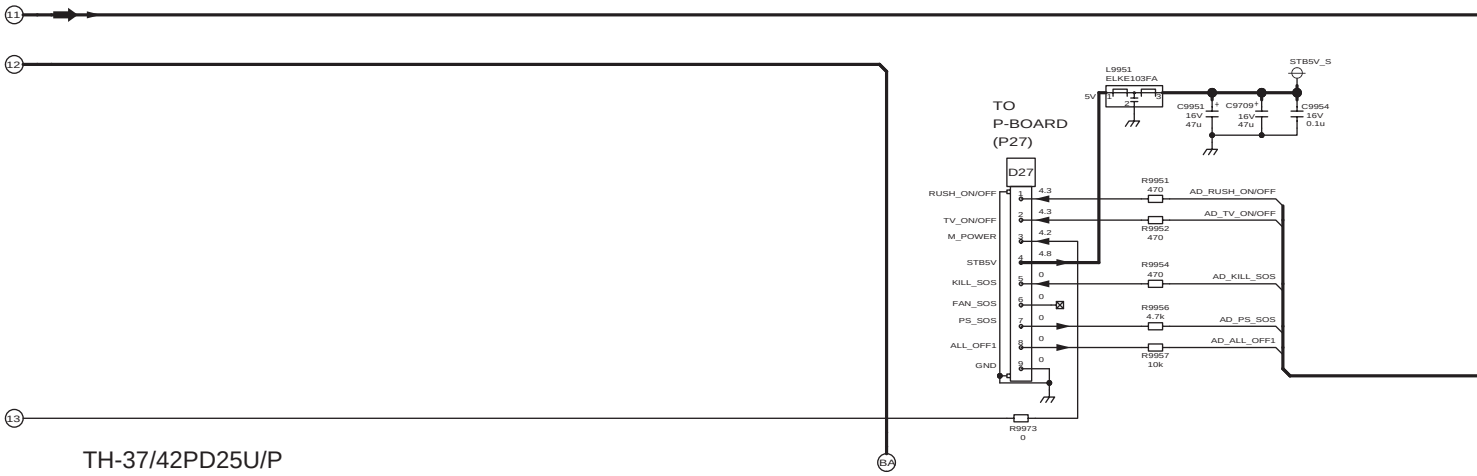
12 13 14 15

15.38. D-Board (3 of 12) Schematic Diagram

D-BOARD TZTNP01TTSU (3/12)

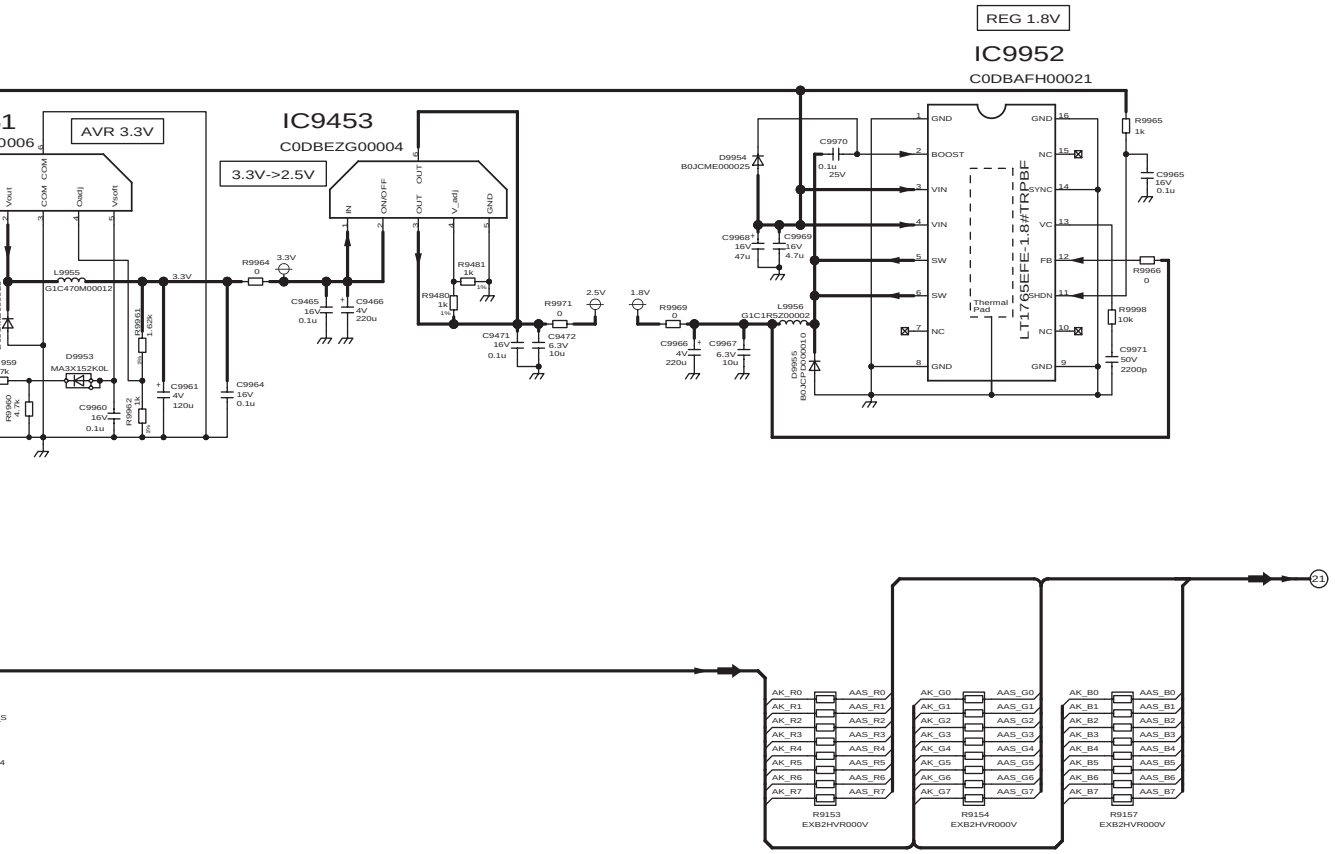
TO
D-BOARD
(2/12)





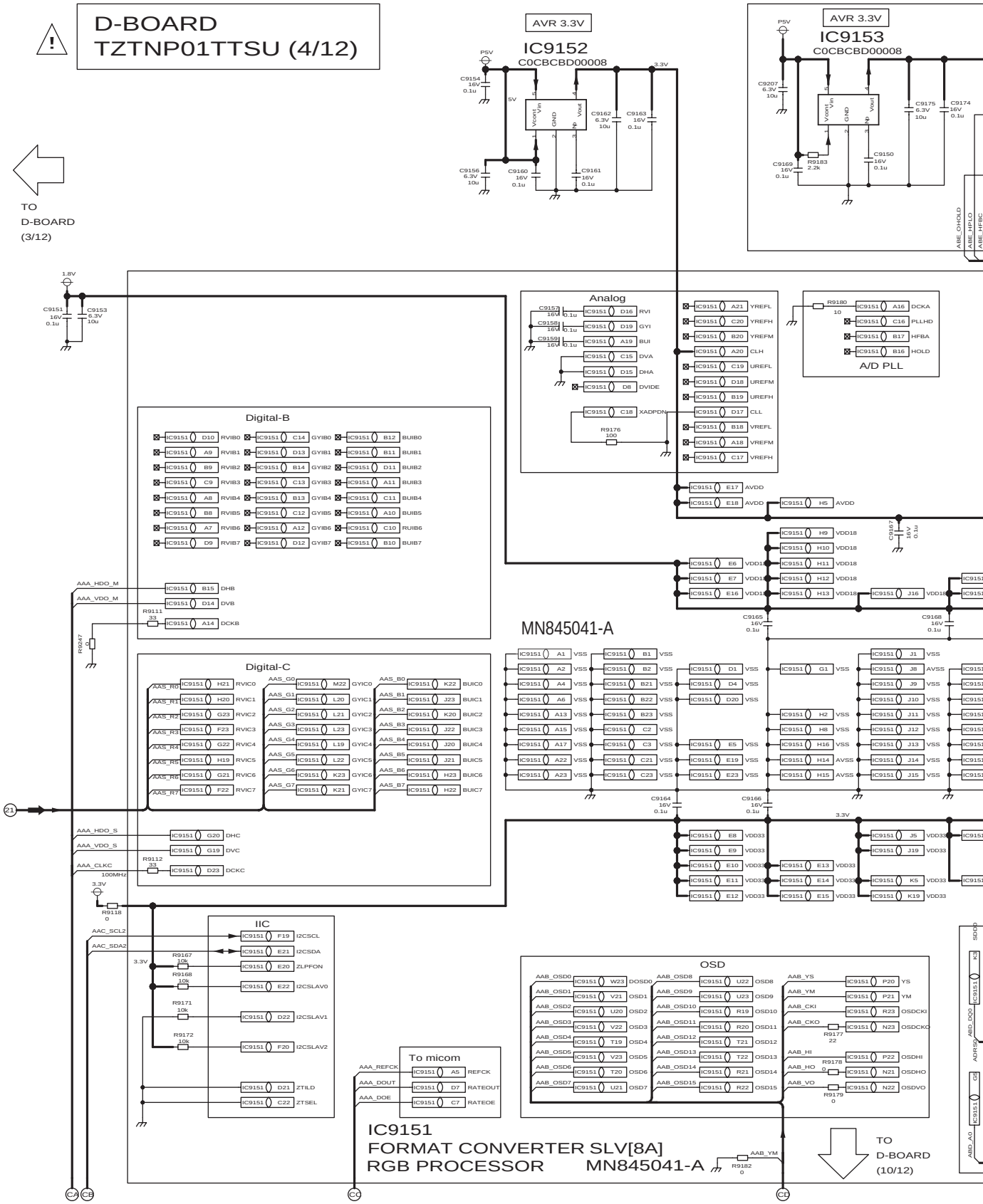
TH-37/42PD25U/P
D-Board (3 of 12) Schematic Diagram

16 17 18 19

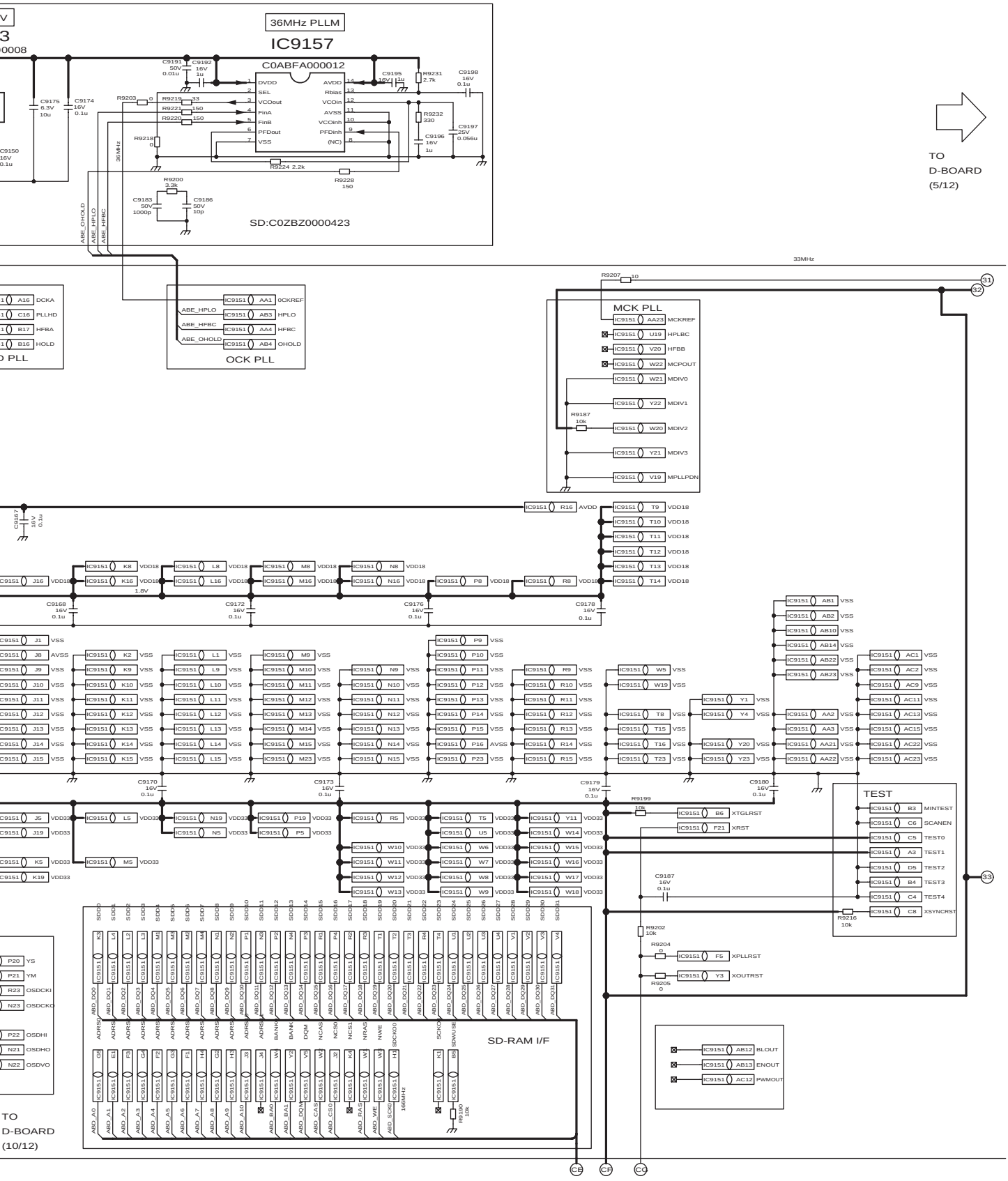


TH-37/42PD25U/P
D-Board (3 of 12) Schematic Diagram

15.39. D-Board (4 of 12) Schematic Diagram

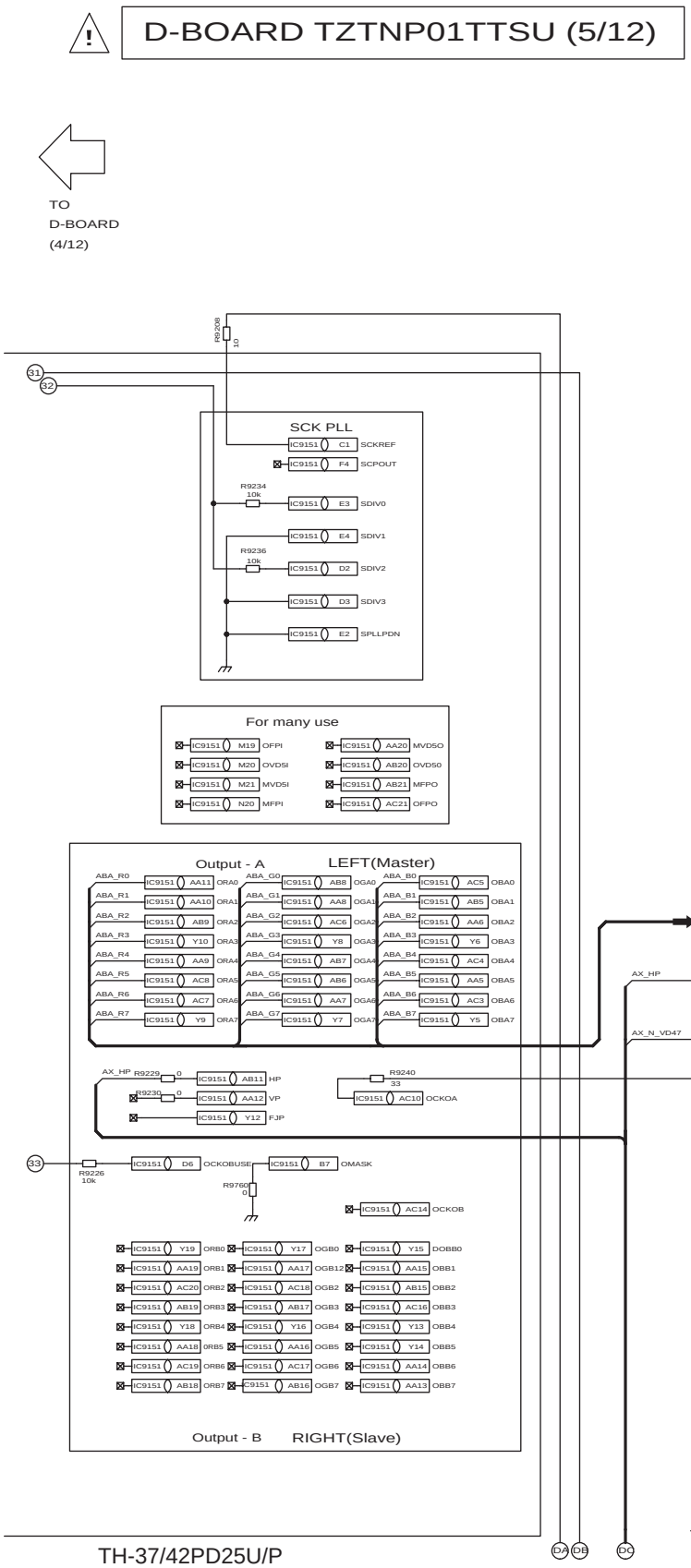


TH-37/42PD25U/P D-Board (4 of 12) Schematic Diagram



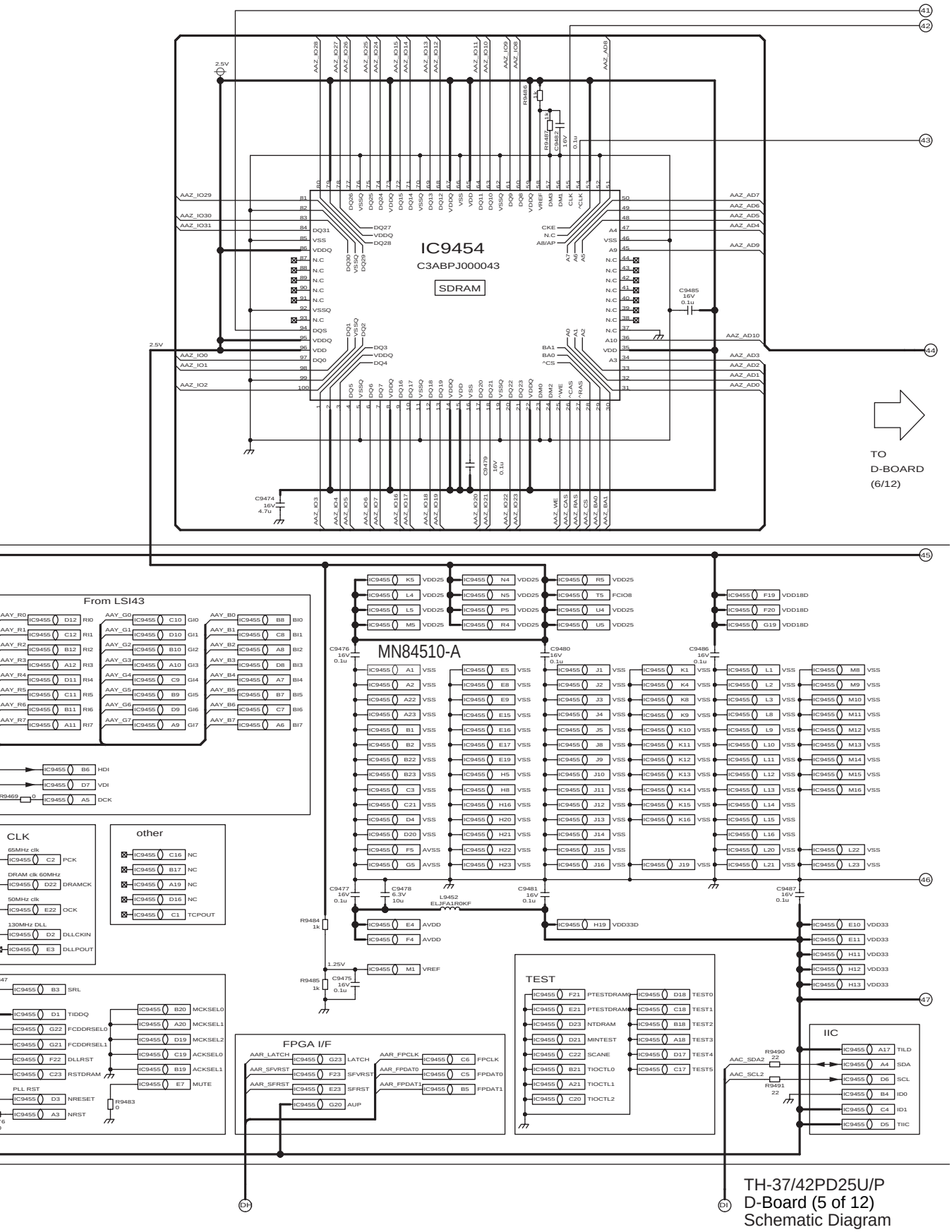
TH-37/42PD25U/P D-Board (4 of 12) Schematic Diagram

15.40. D-Board (5 of 12) Schematic Diagram

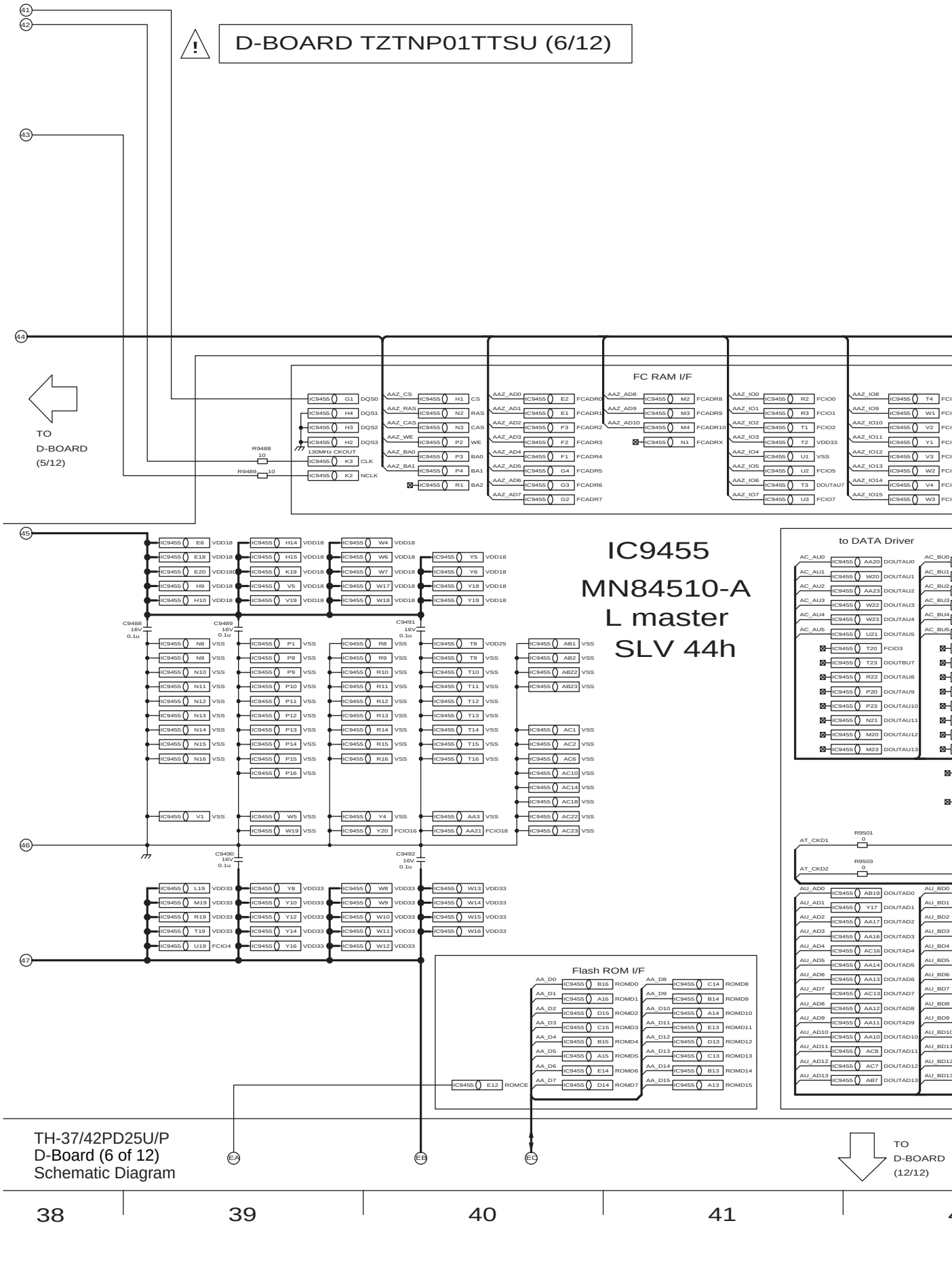


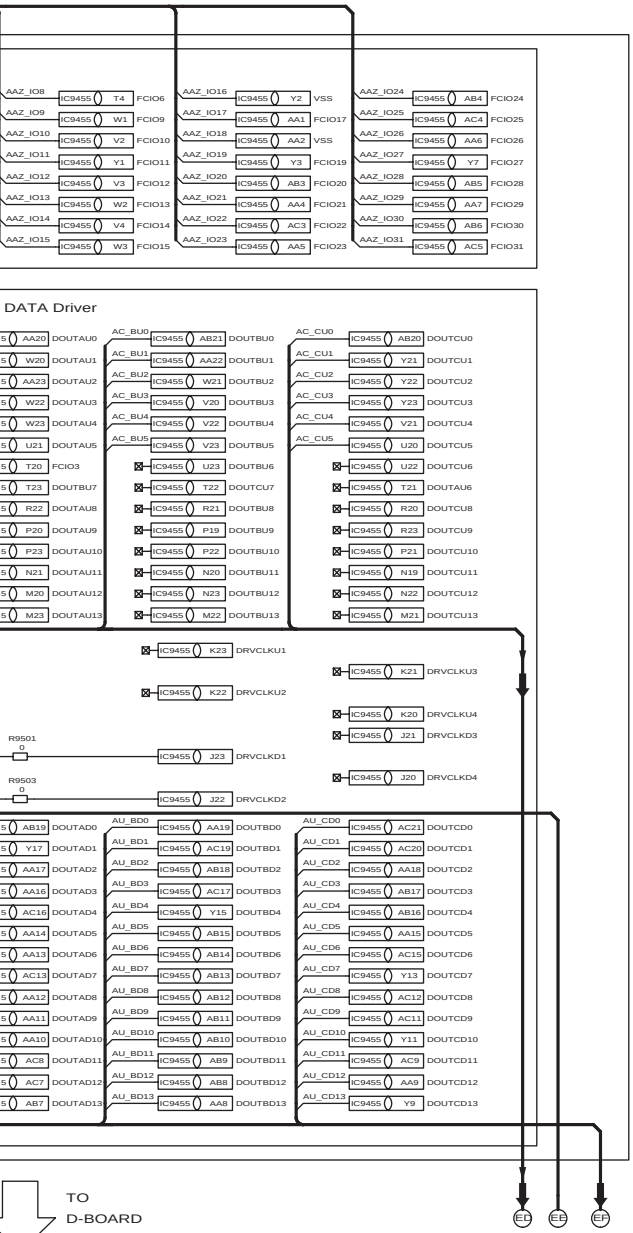
TH-37/42PD25U/P
D-Board (5 of 12) Schematic Diagram

31 32 33 34


IC9454
C3ABPJ000043
SDRAM
2.5V
1.25V
TO
D-BOARD
(6/12)
MN84510-A
From LSI43
CLK
other
TEST
FPGA I/F
IIC
TH-37/42PD25U/P
D-Board (5 of 12)
Schematic Diagram

15.41. D-Board (6 of 12) Schematic Diagram

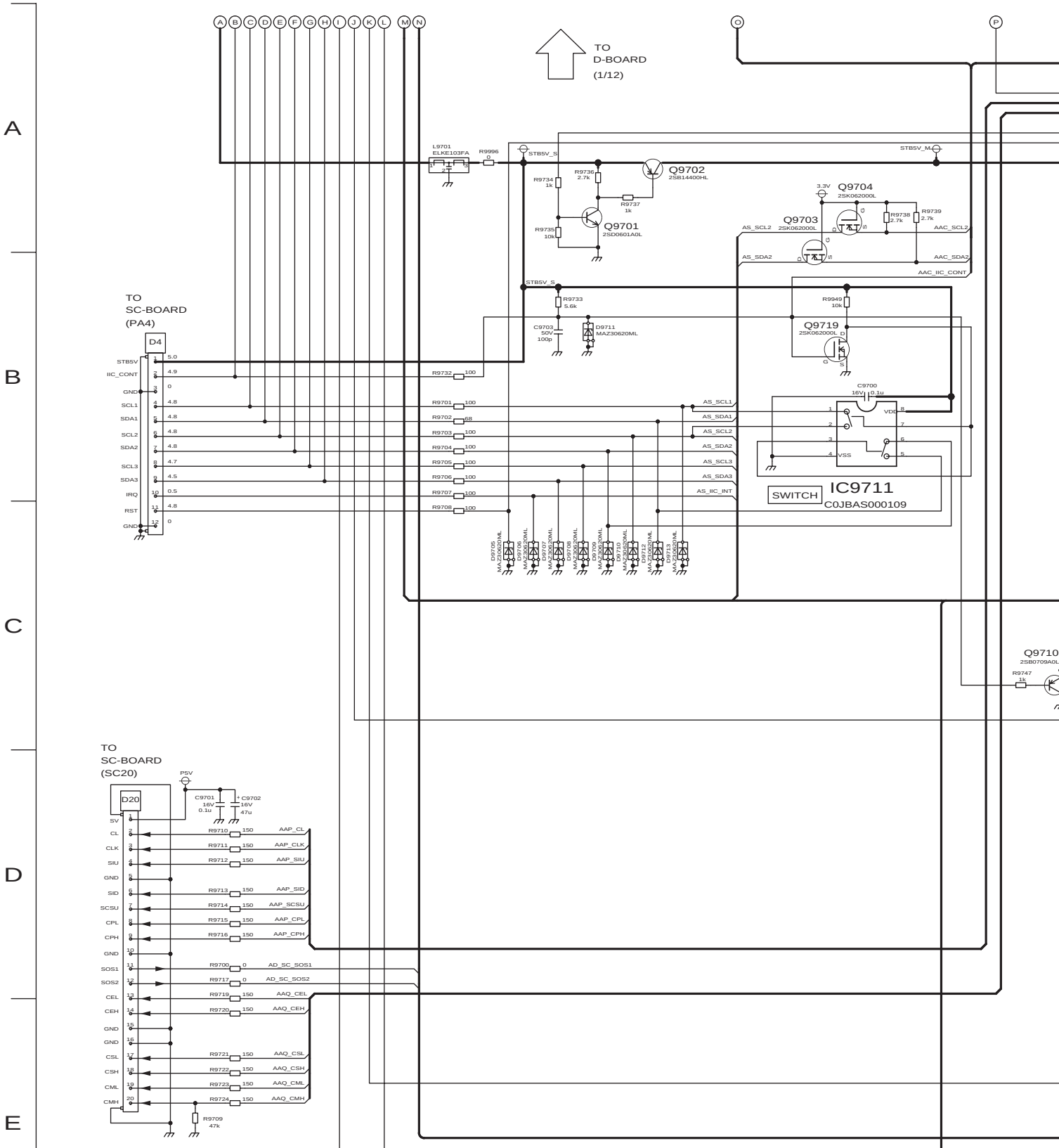




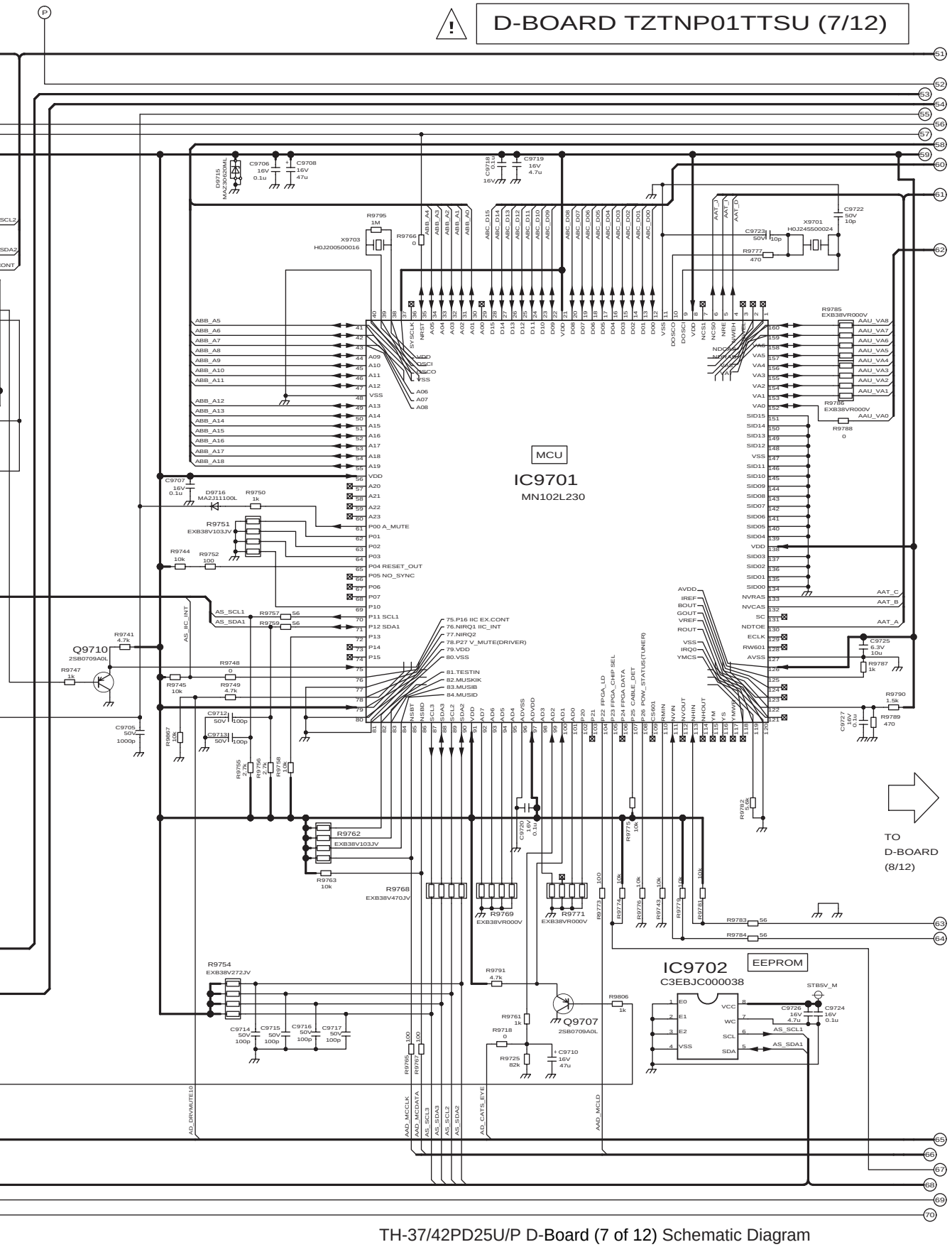
TH-37/42PD25U/P
D-Board (6 of 12) Schematic Diagram

42 43 44 45

15.42. D-Board (7 of 12) Schematic Diagram



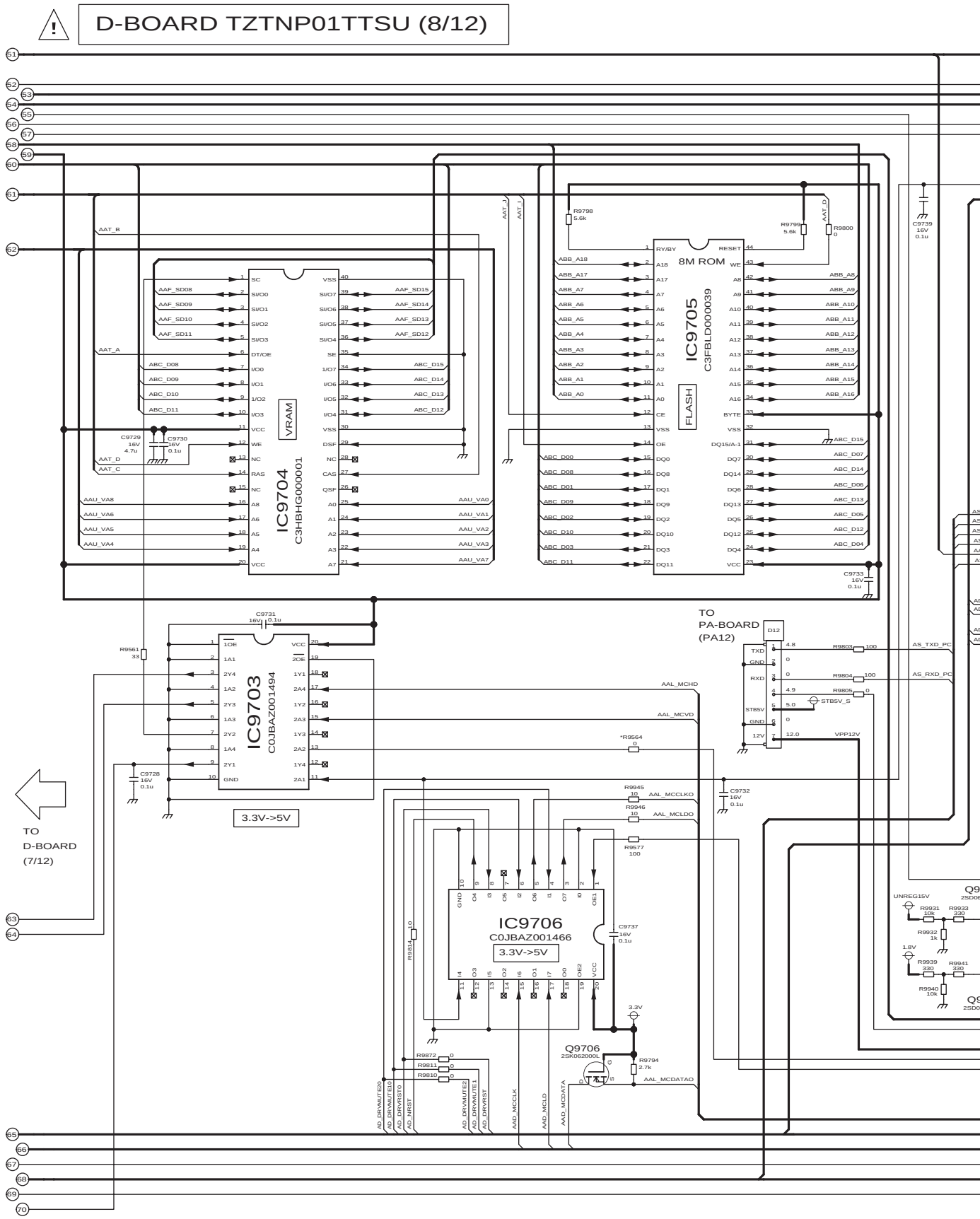
TH-37/42PD25U/P
D-Board (7 of 12) Schematic Diagram



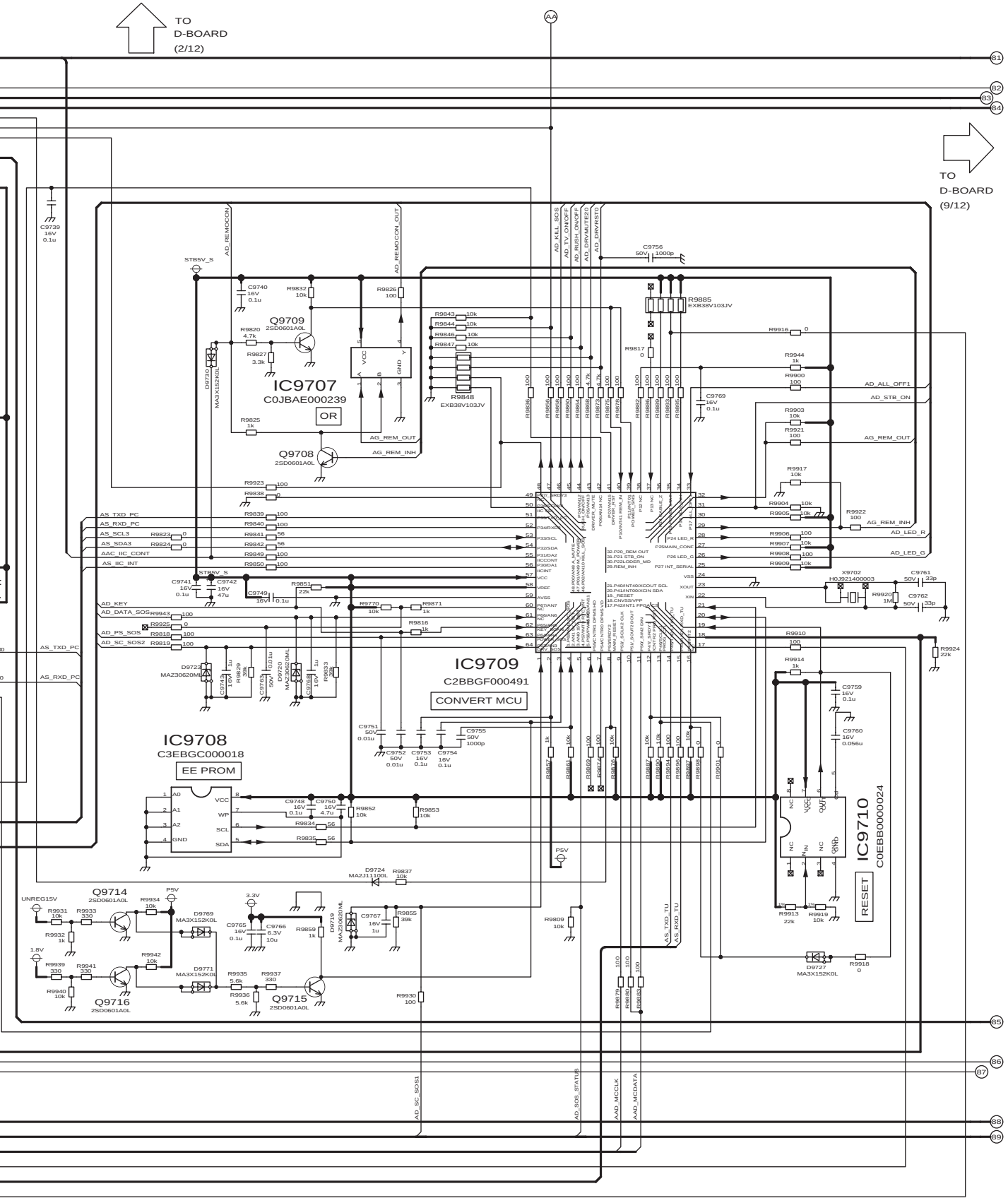
TH-37/42PD25U/P D-Board (7 of 12) Schematic Diagram

5 6 7 8

15.43. D-Board (8 of 12) Schematic Diagram



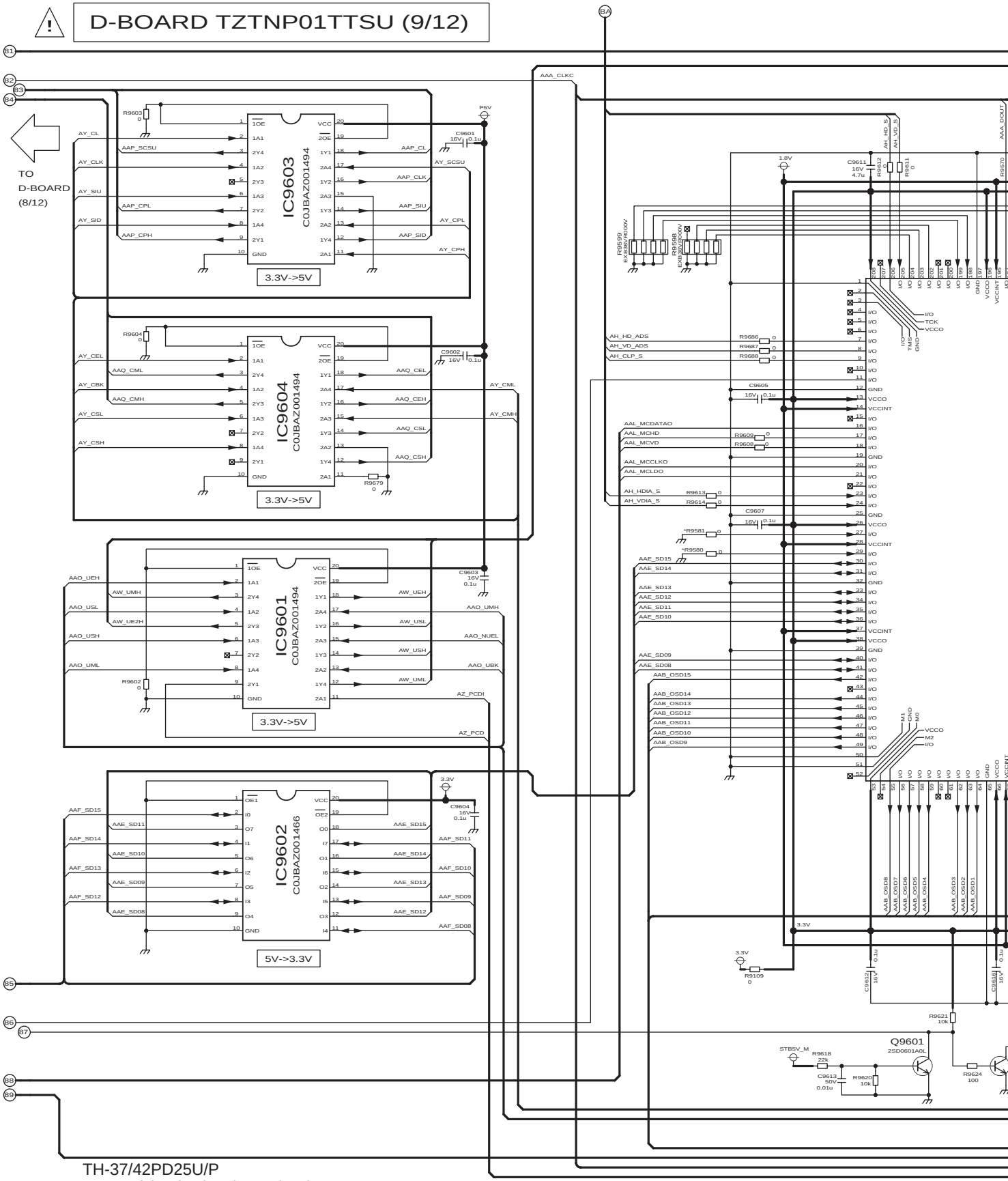
TH-37/42PD25U/P D-Board (8 of 12) Schematic Diagram

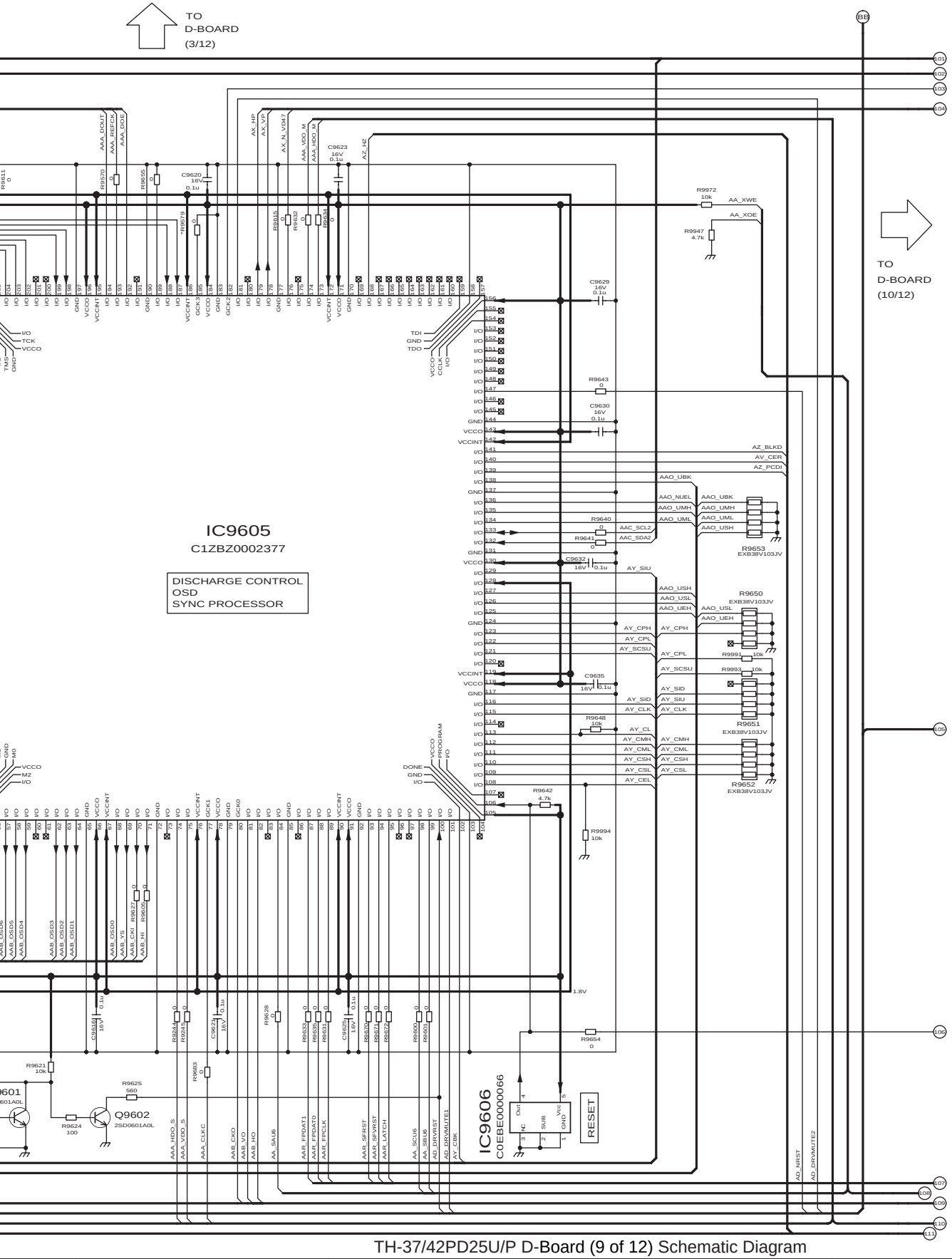


TH-37/42PD25U/P D-Board (8 of 12) Schematic Diagram

12 13 14 15

15.44. D-Board (9 of 12) Schematic Diagram

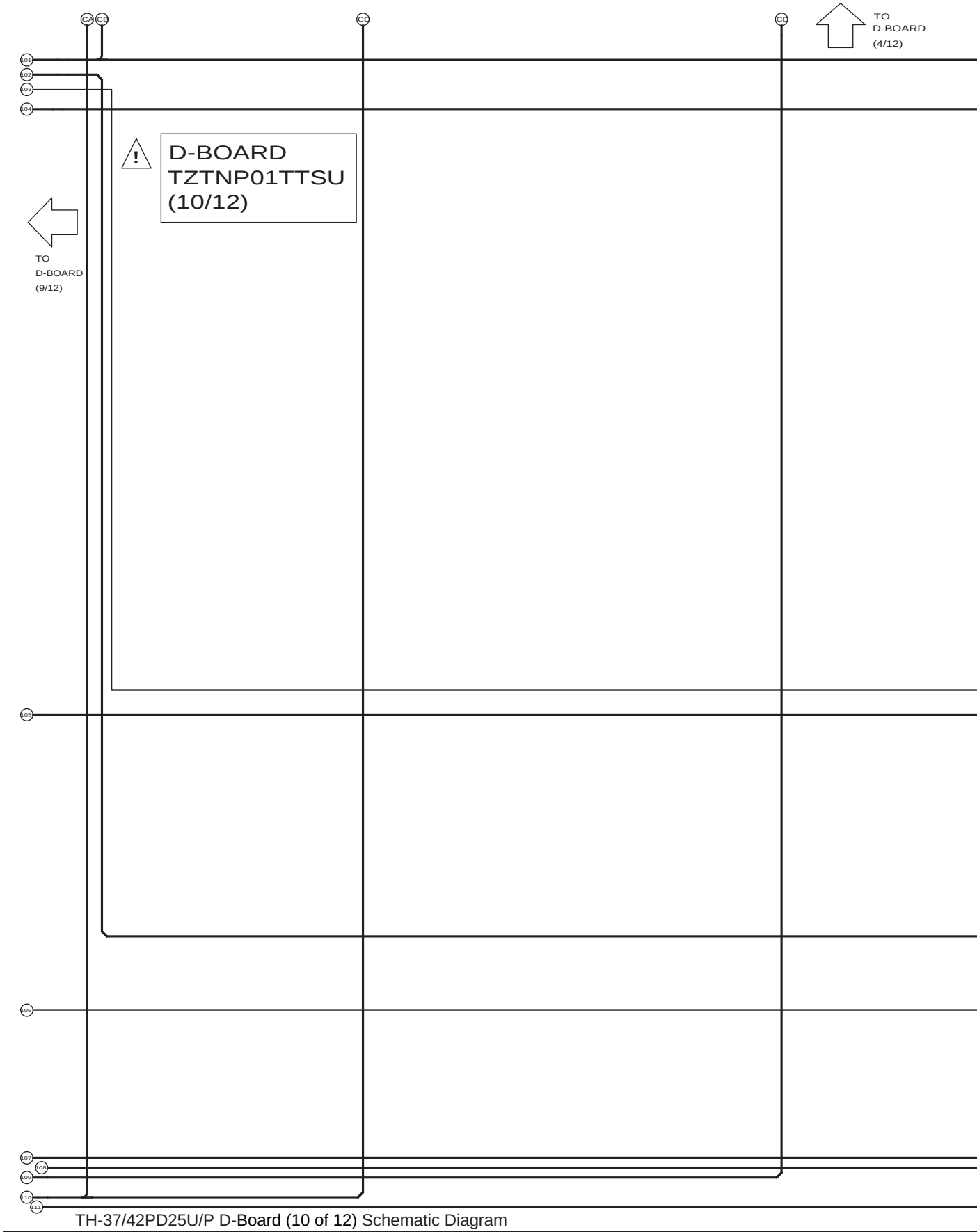




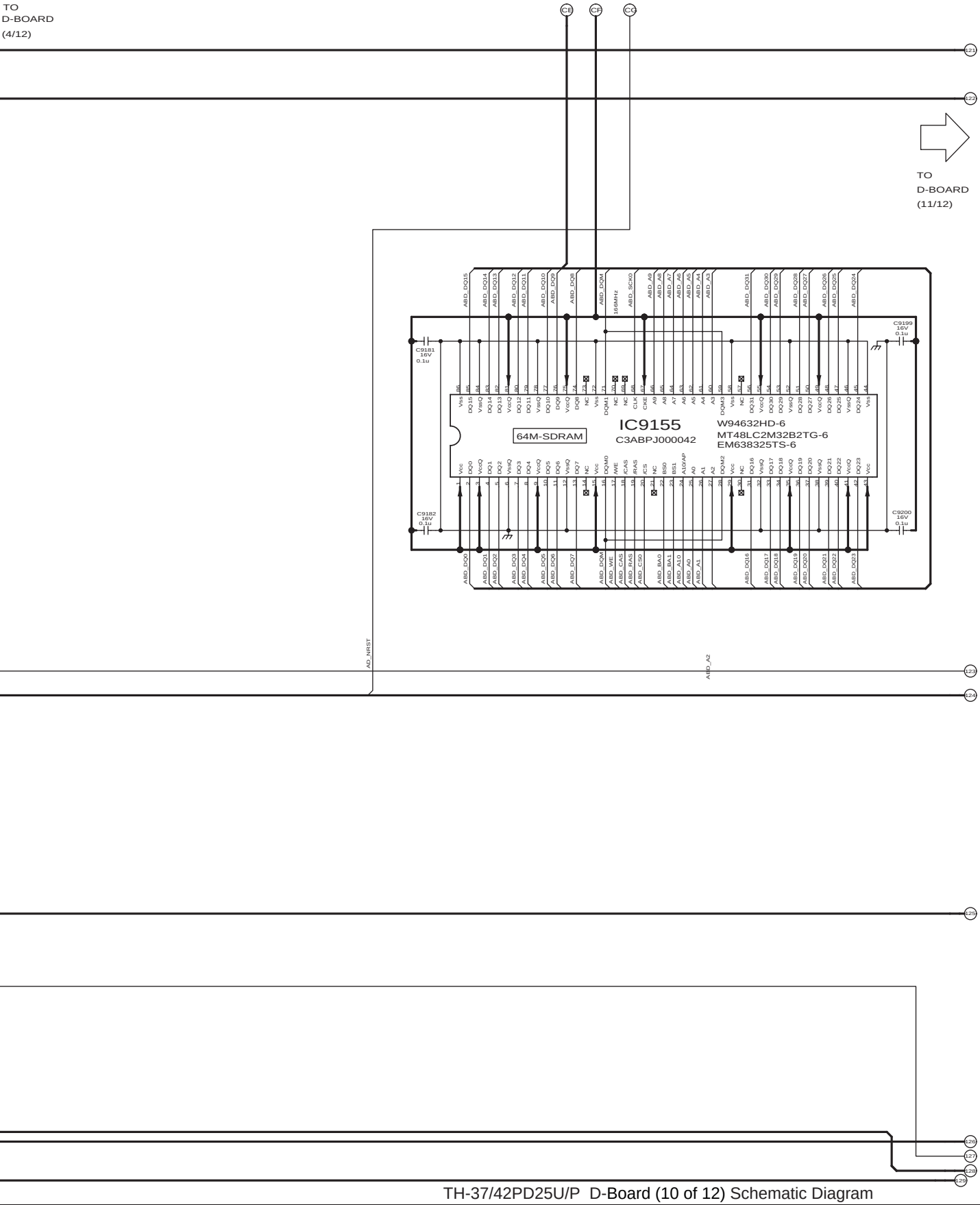
TH-37/42PD25U/P D-Board (9 of 12) Schematic Diagram

20 21 22 23

15.45. D-Board (10 of 12) Schematic Diagram



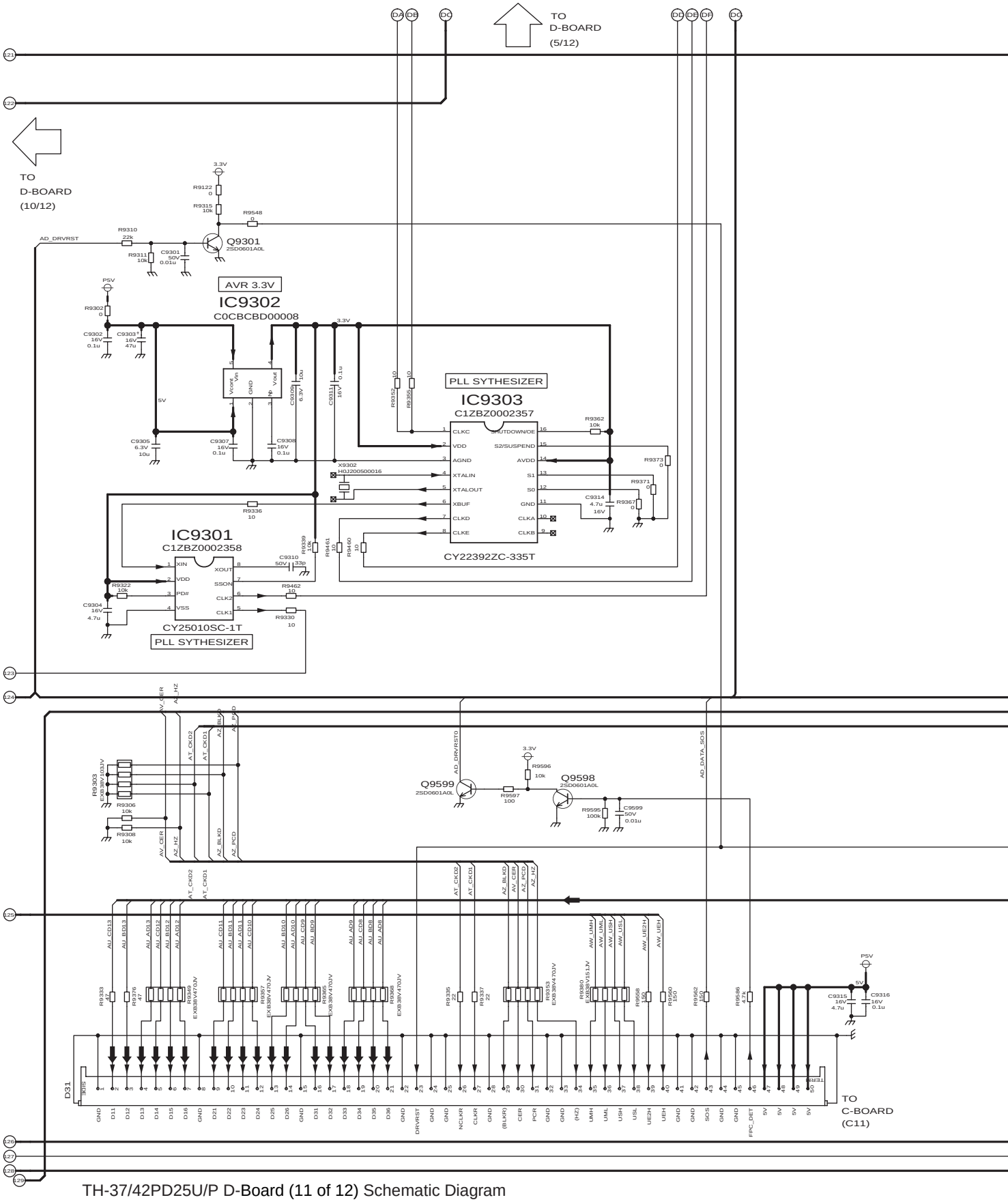
TH-37/42PD25U/P D-Board (10 of 12) Schematic Diagram



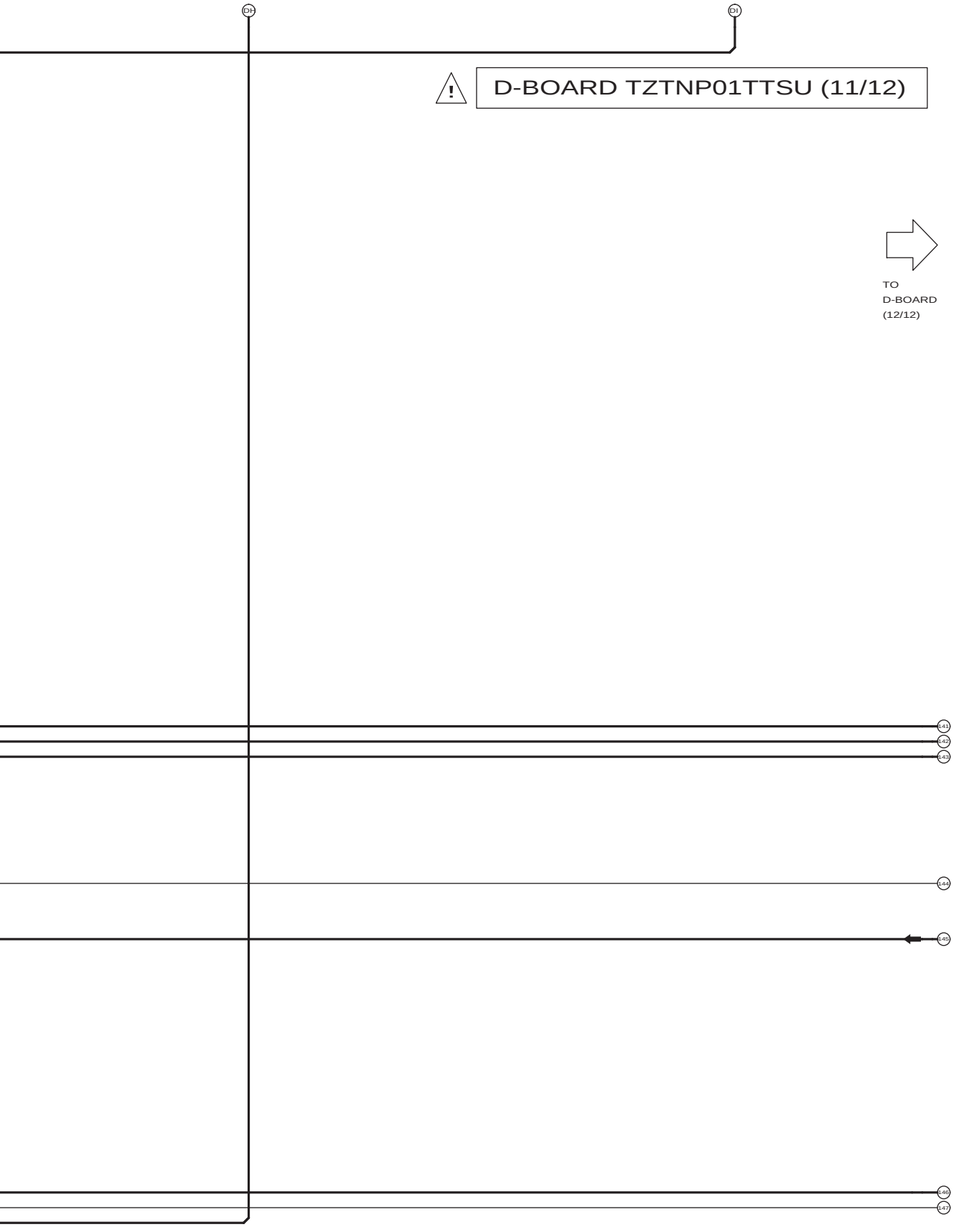
TH-37/42PD25U/P D-Board (10 of 12) Schematic Diagram

27 28 29 30

15.46. D-Board (11 of 12) Schematic Diagram



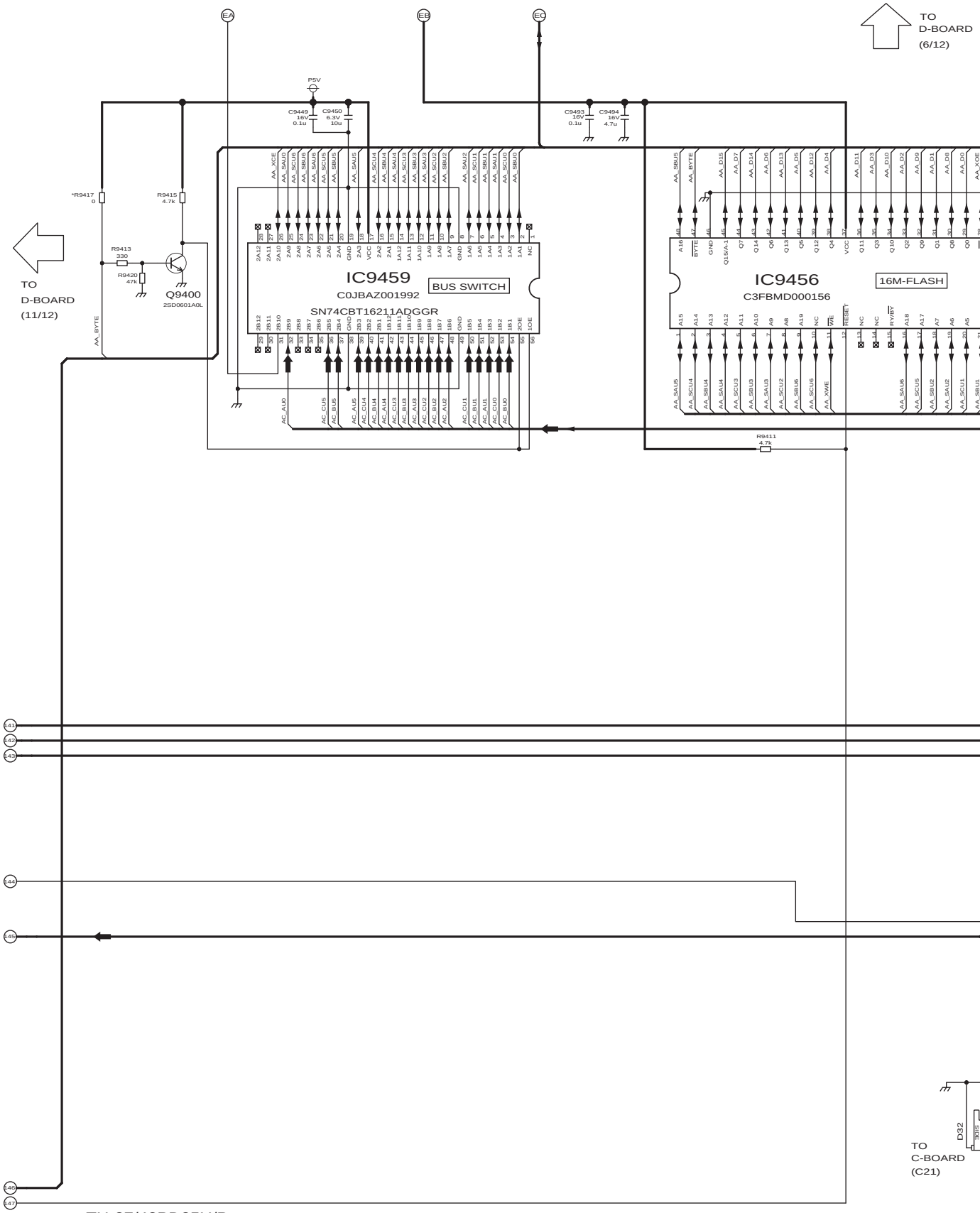
TH-37/42PD25U/P D-Board (11 of 12) Schematic Diagram



TH-37/42PD25U/P D-Board (11 of 12) Schematic Diagram

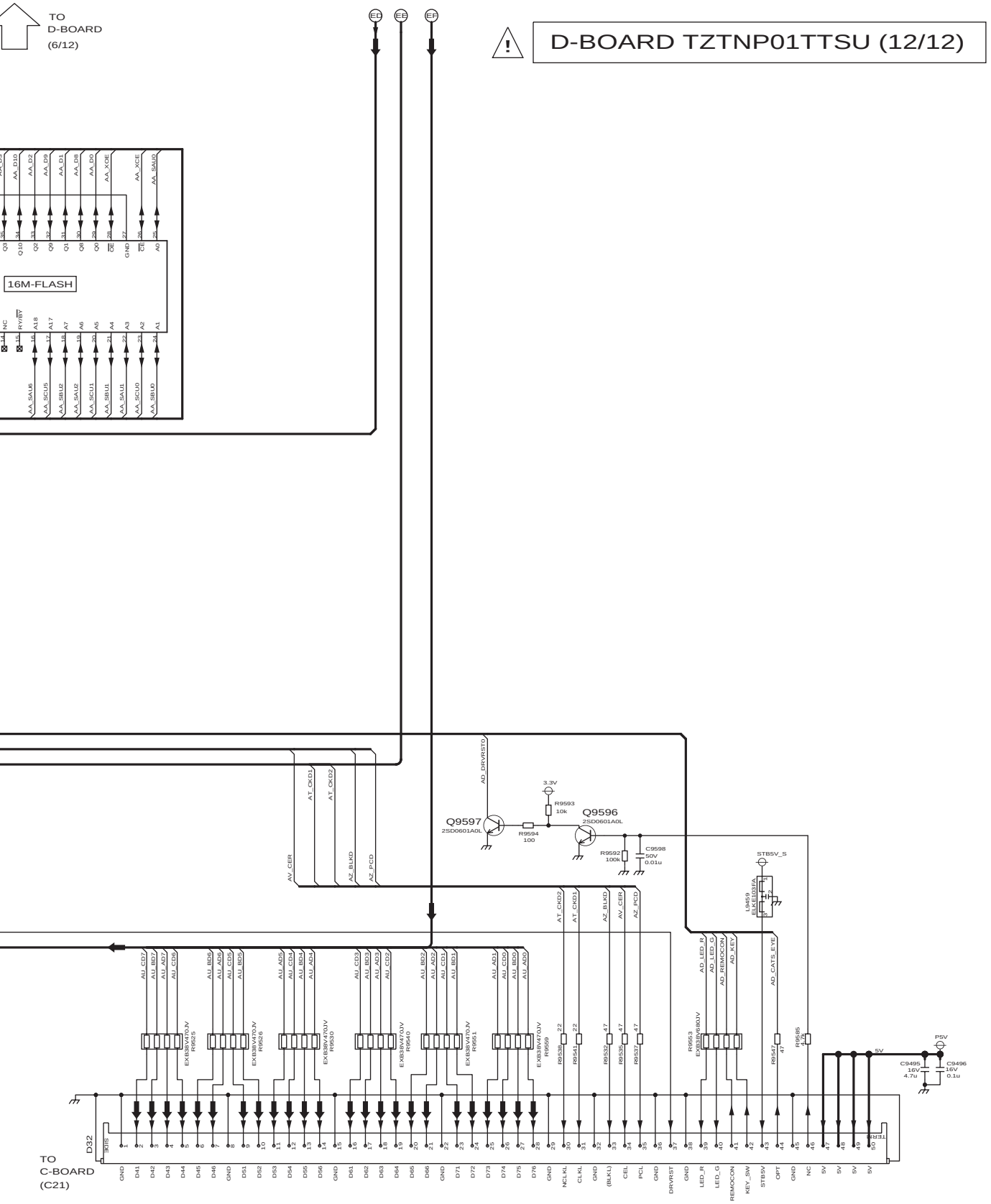
35 36 37 38

15.47. D-Board (12 of 12) Schematic Diagram



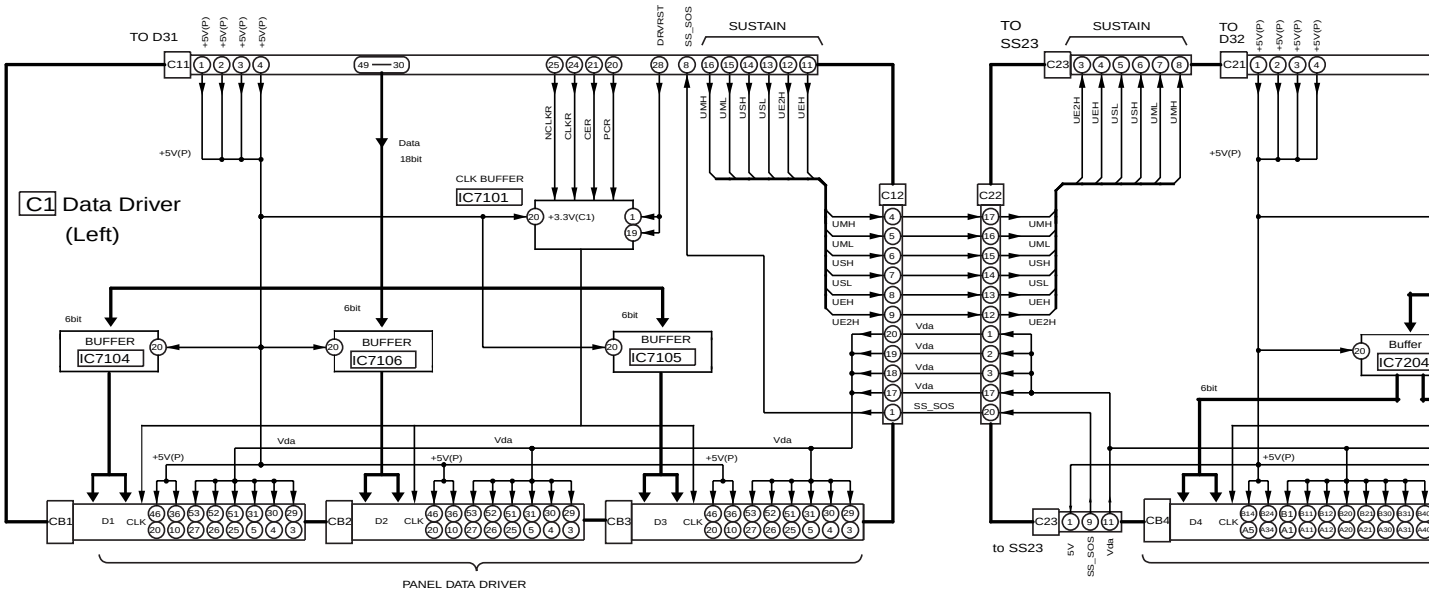
TH-37/42PD25U/P
D-Board (12 of 12) Schematic Diagram

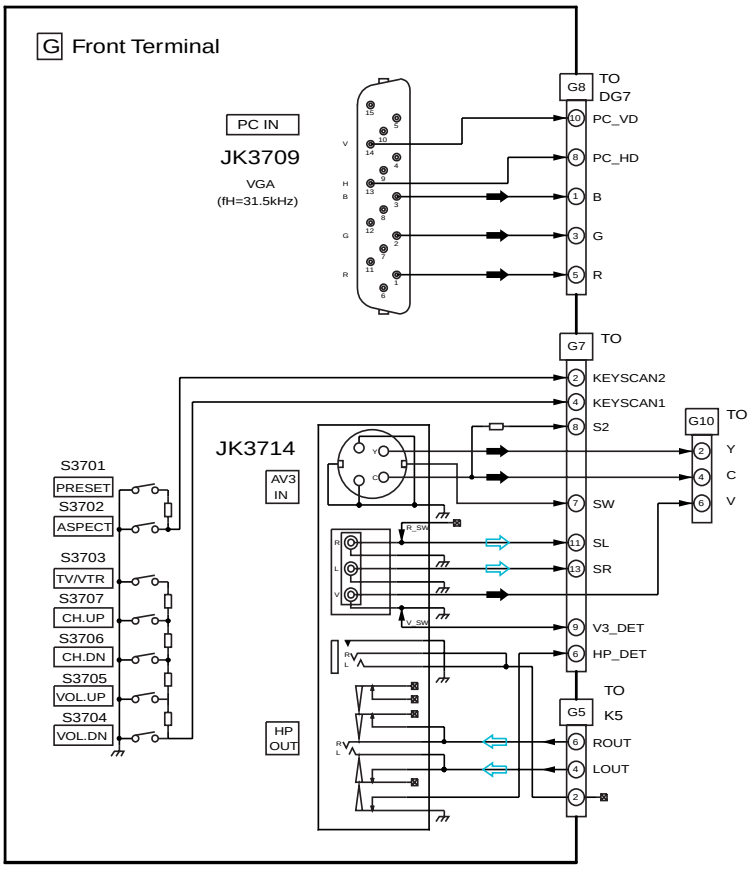
38 39 40 41

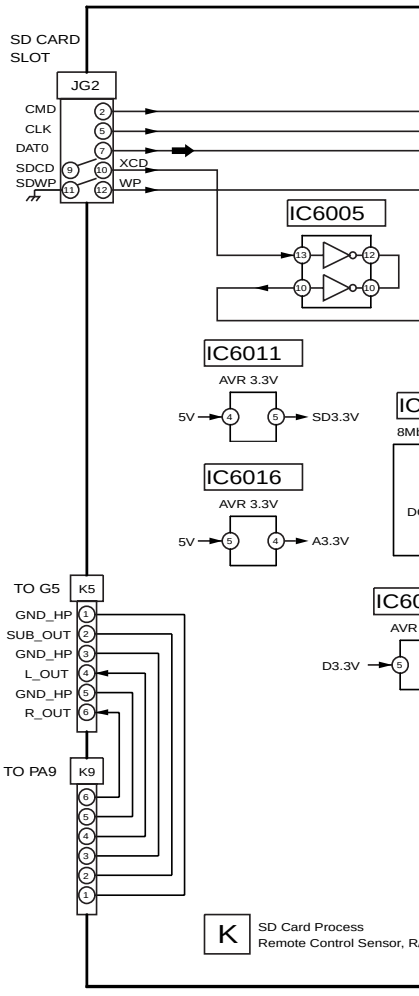


TH-37/42PD25U/P
D-Board (12 of 12) Schematic Diagram

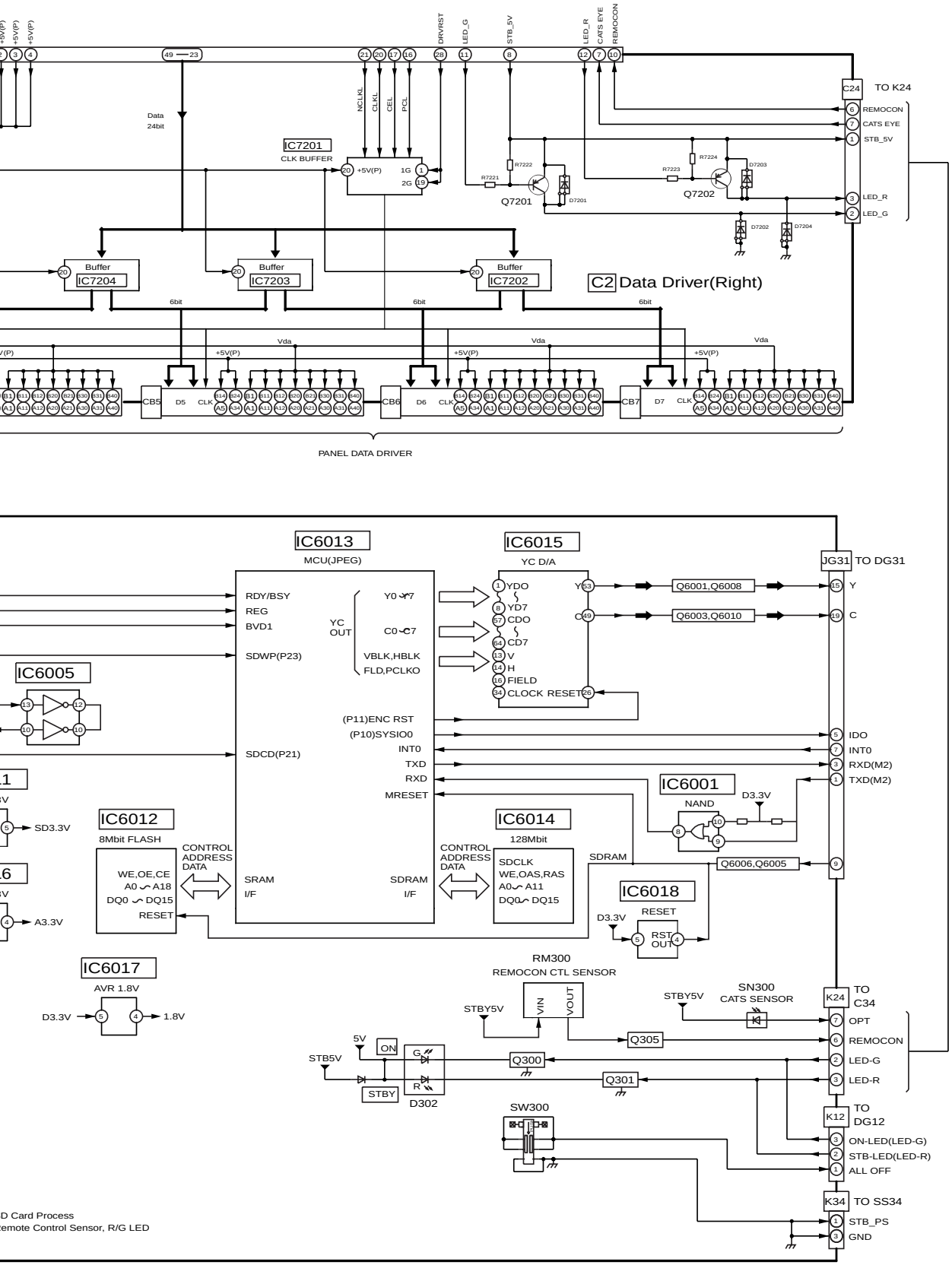
15.48. C1, C2, G, and K-Board Block Diagram





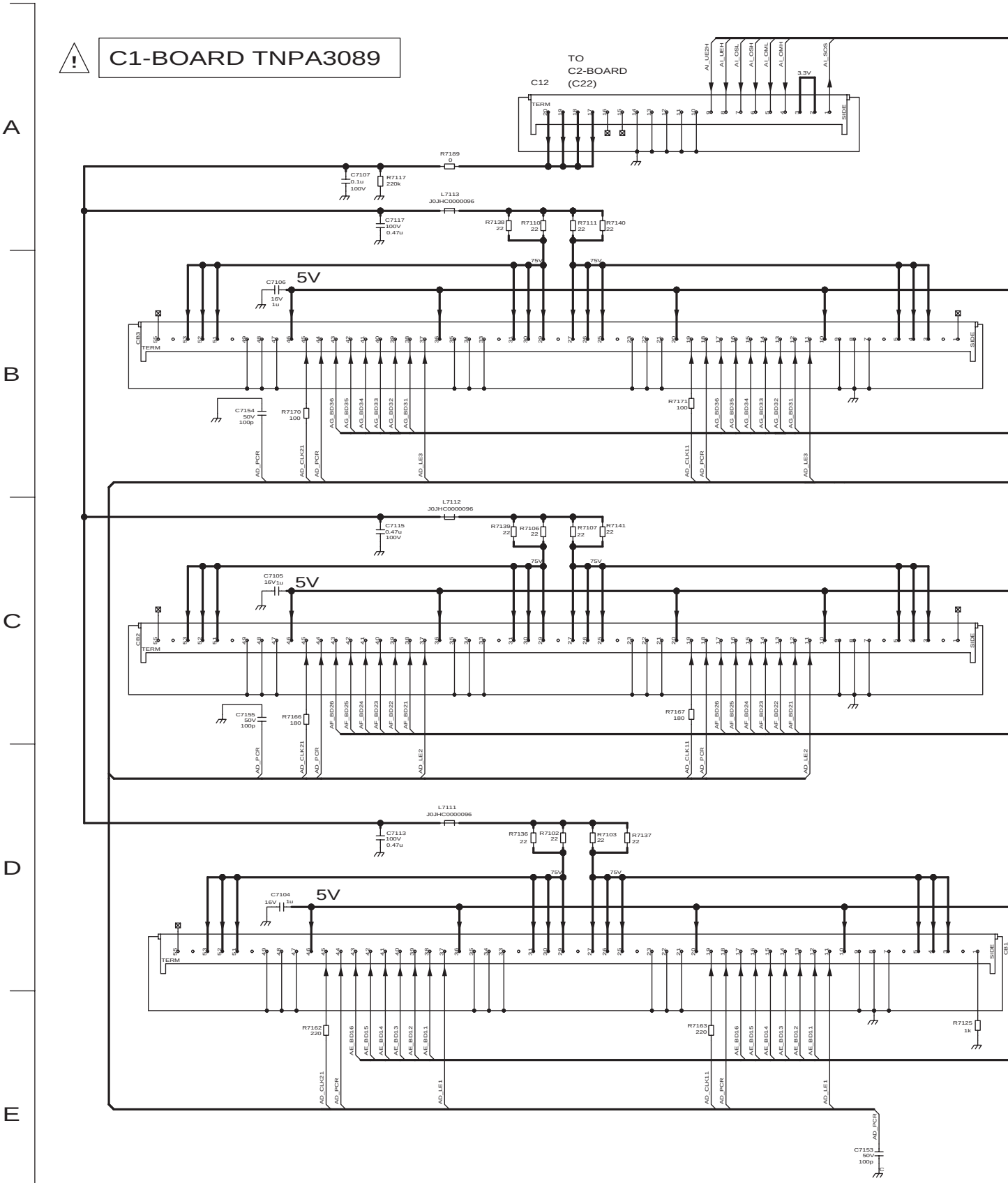


TH-37/42PD25U/P
C1, C2, G, and K-Board Block Diagram

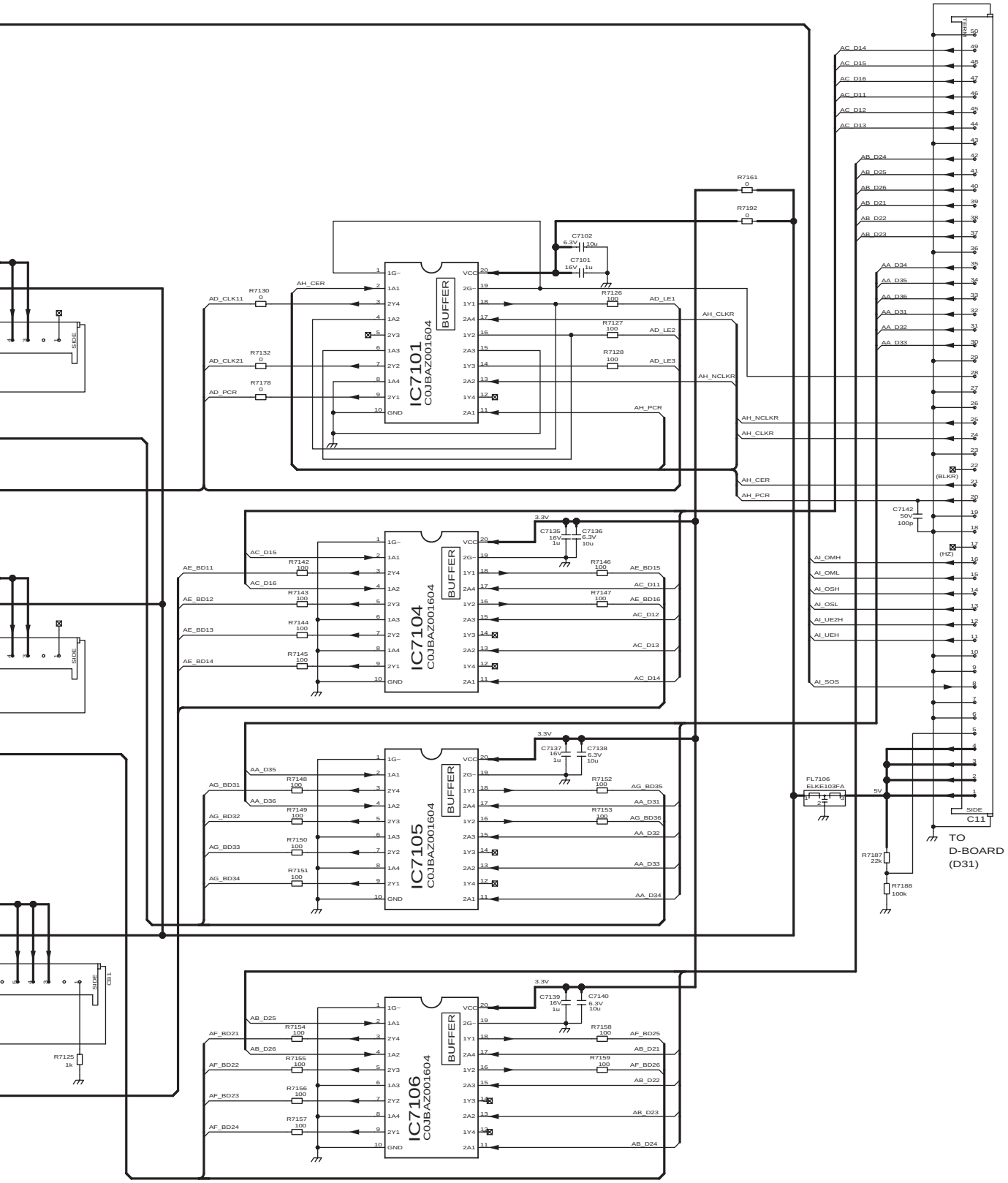


TH-37/42PD25U/P
C1, C2, G, and K-Board Block Diagram

15.49. C1-Board Schematic Diagram (TH-37PD25U/P)

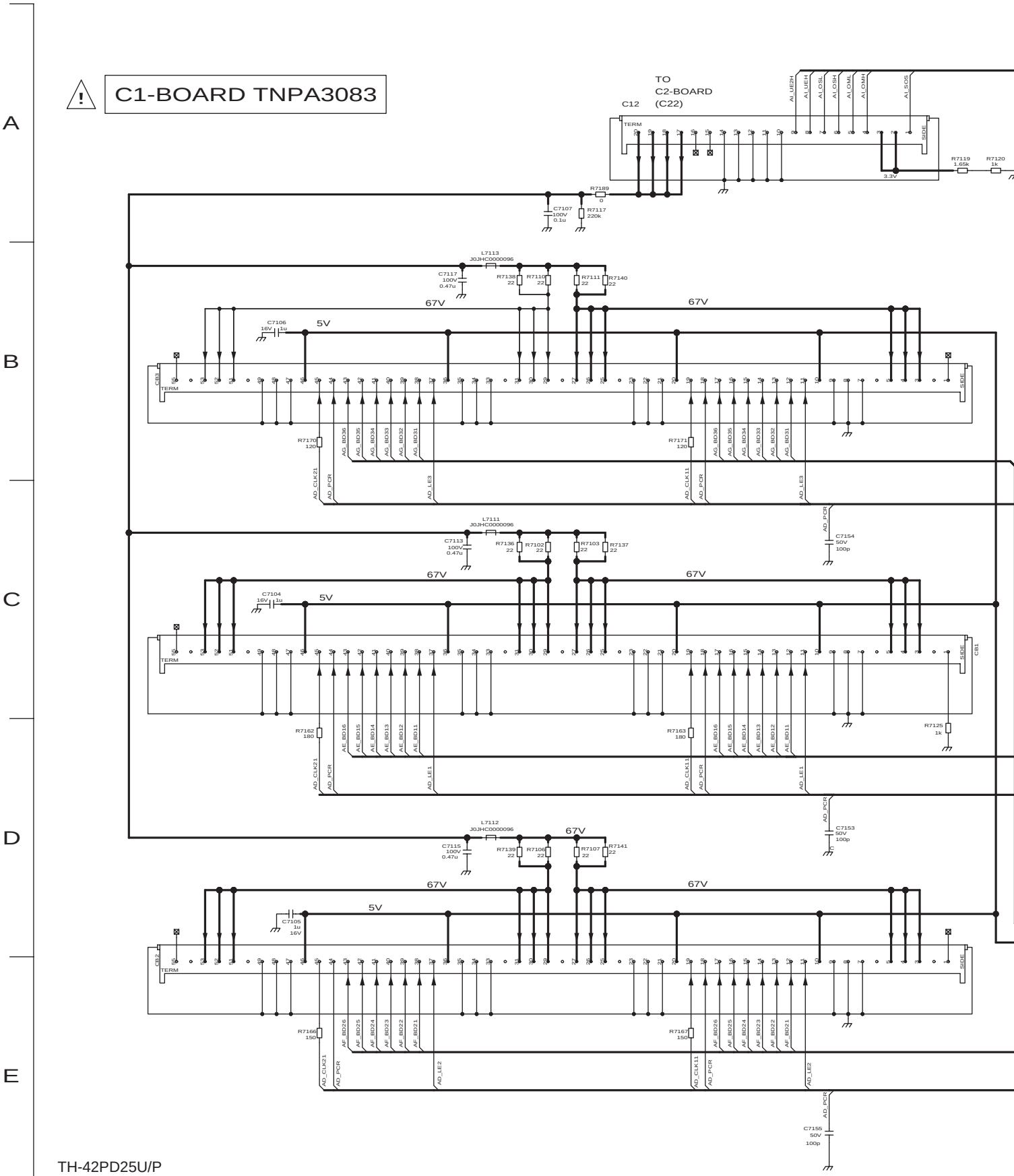


TH-37PD25U/P
C1-Board Schematic Diagram

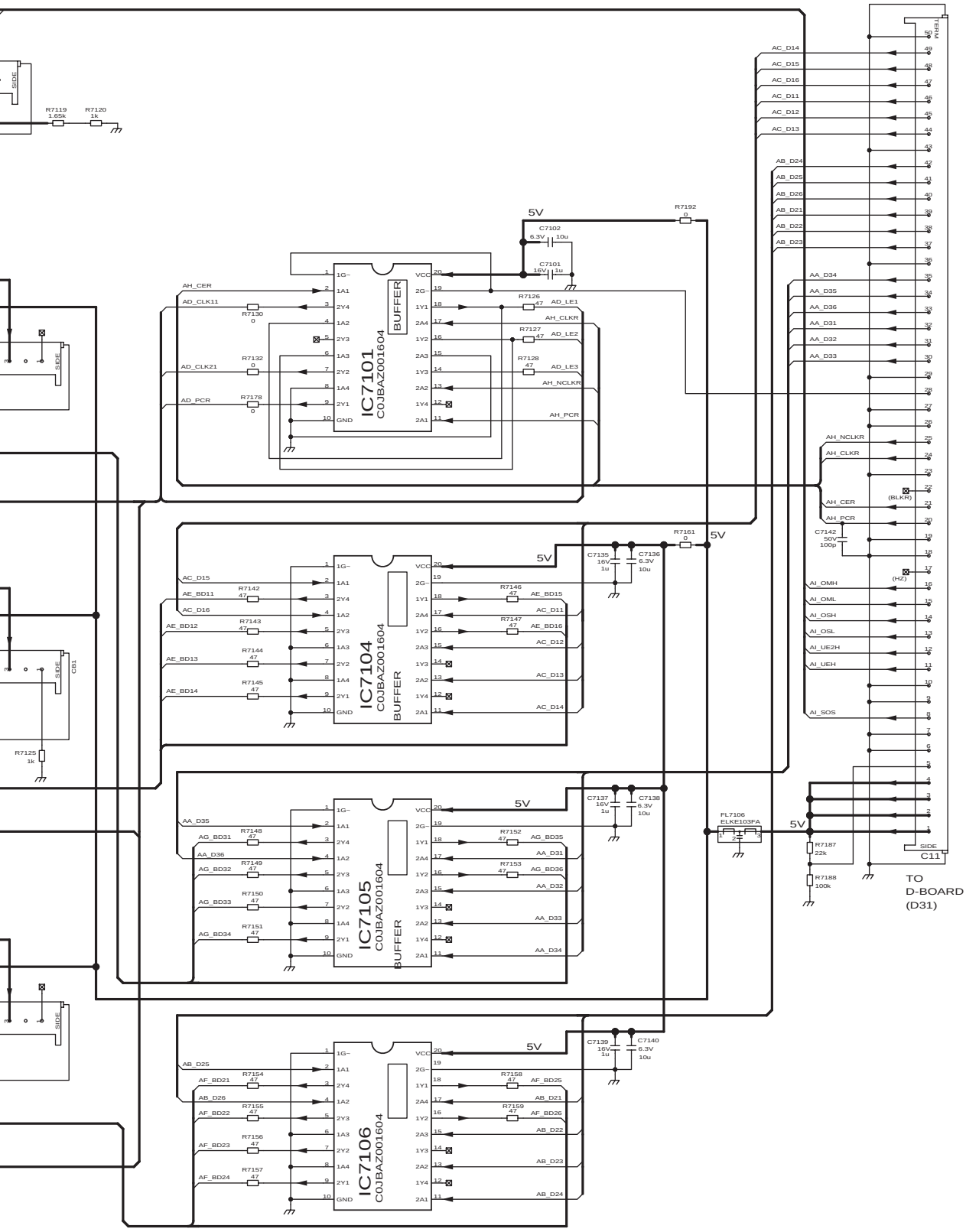


TH-37PD25U/P
C1-Board Schematic Diagram

15.50. C1-Board Schematic Diagram (TH-42PD25U/P)

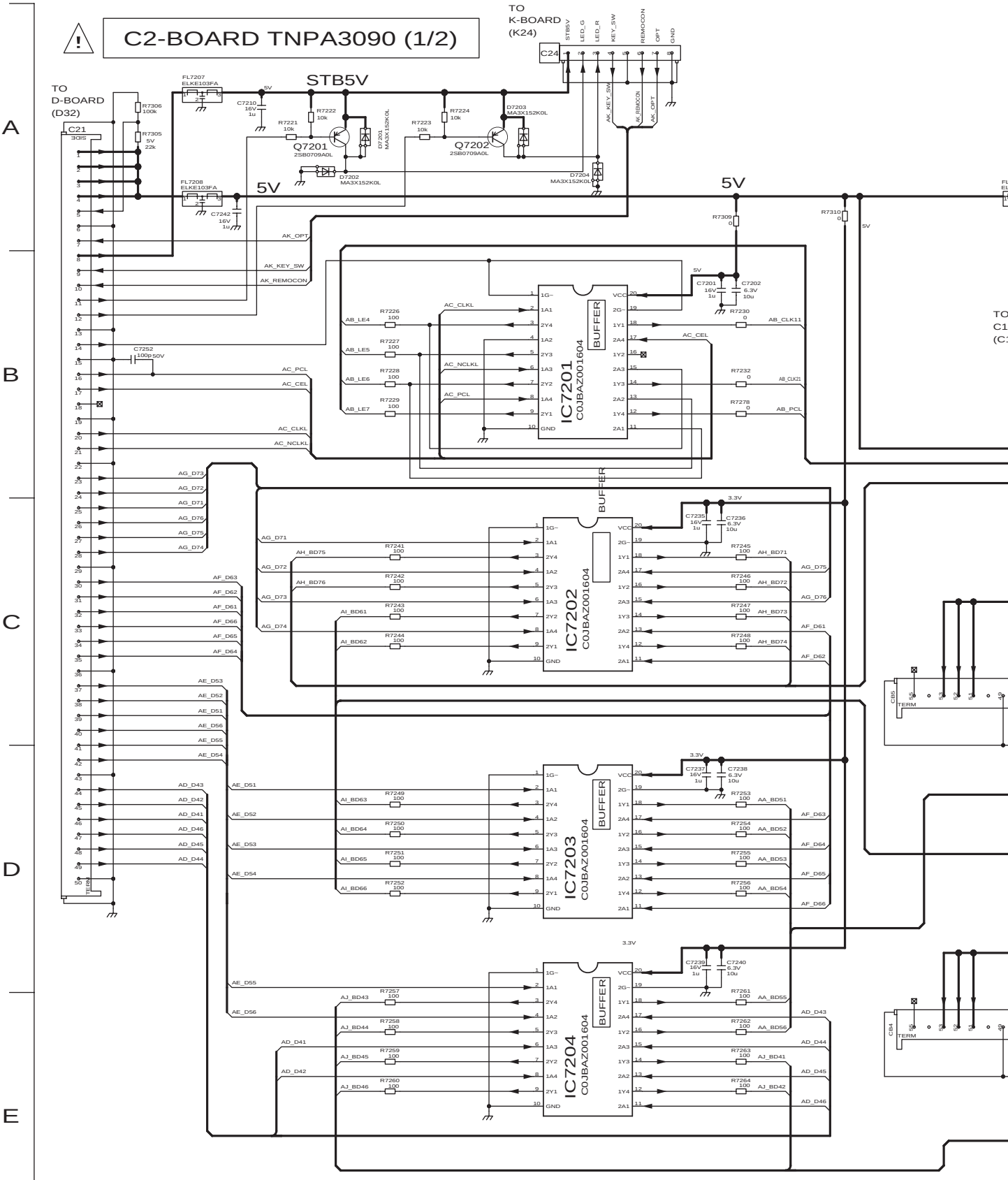


TH-42PD25U/P
C1-Board Schematic Diagram

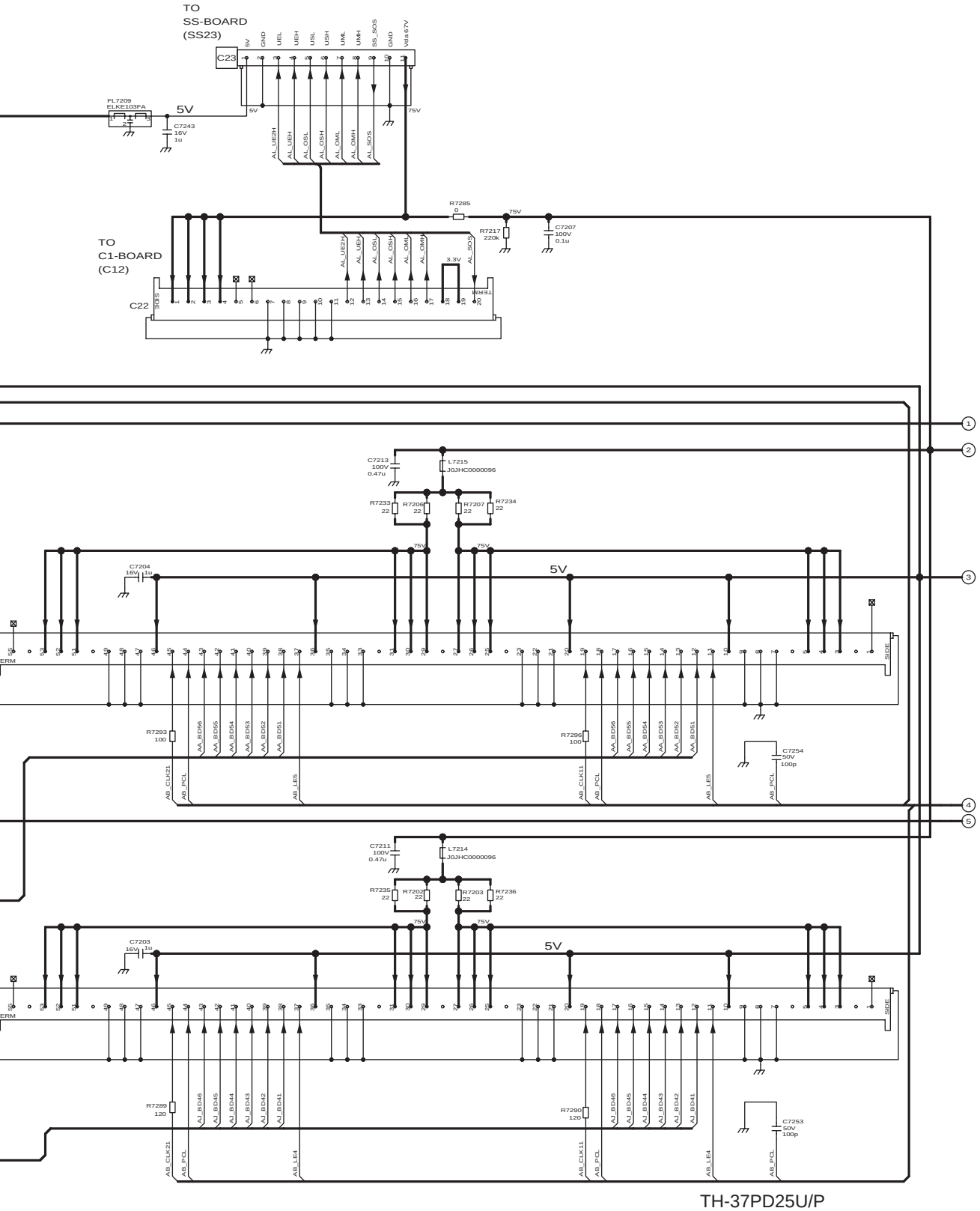


TH-42PD25U/P
C1-Board Schematic Diagram

15.51. C2-Board (1 of 2) Schematic Diagram (TH-37PD25U/P)



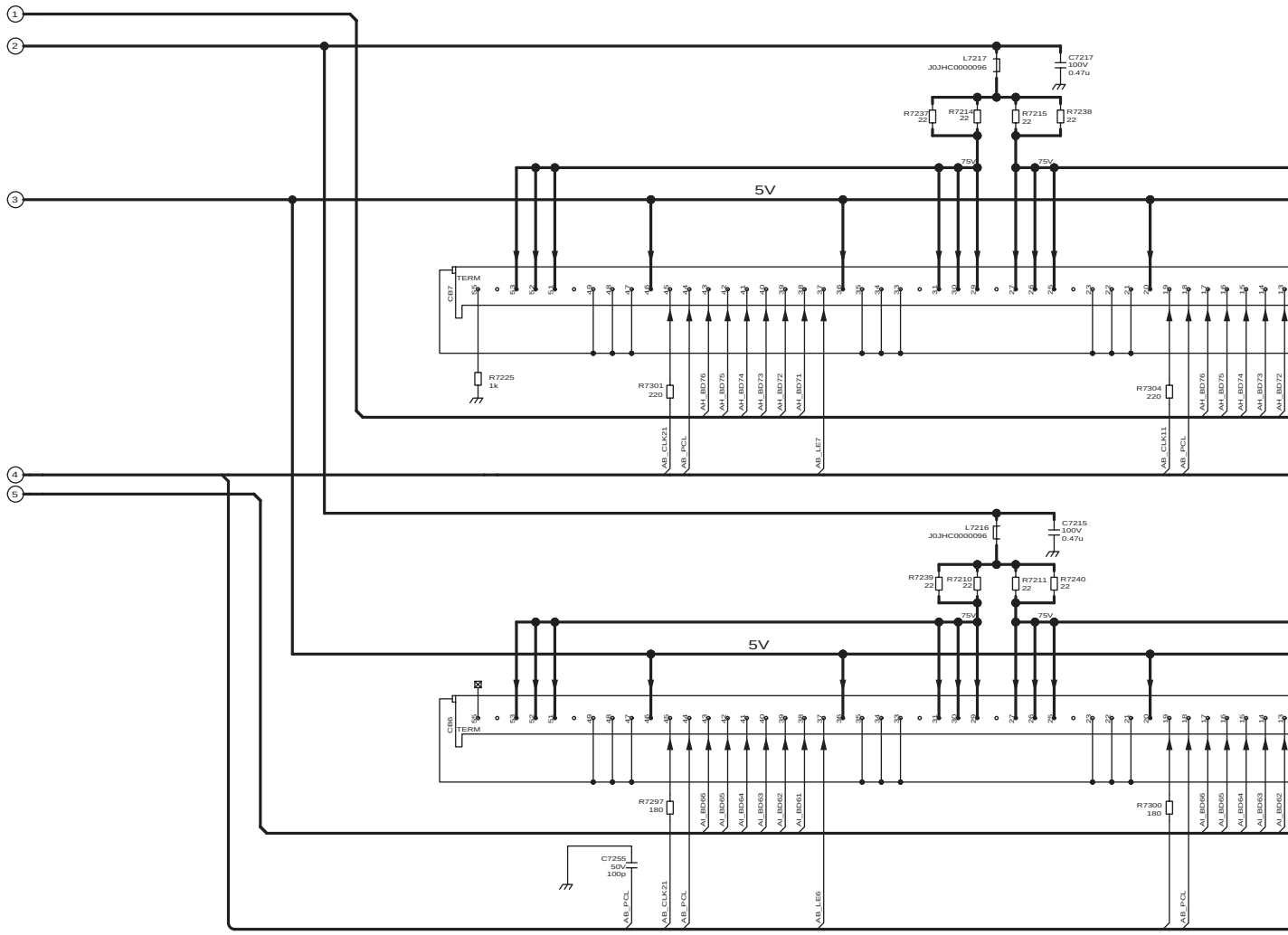
TH-37PD25U/P
C2-Board(1 of 2) Schematic Diagram



TH-37PD25U/P
C2-Board(1 of 2) Schematic Diagram

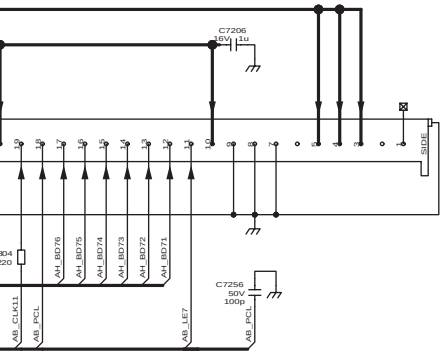
15.52. C2-Board (2 of 2) Schematic Diagram (TH-37PD25U/P)

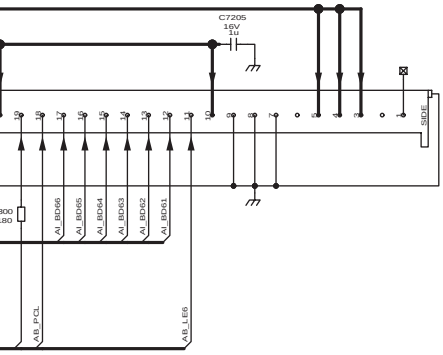
C2-BOARD TNPA3090 (2/2)



TH-37D25U/P
C2-Board(2 of 2) Schematic Diagram

8 | 9 | 10 | 11 | 12



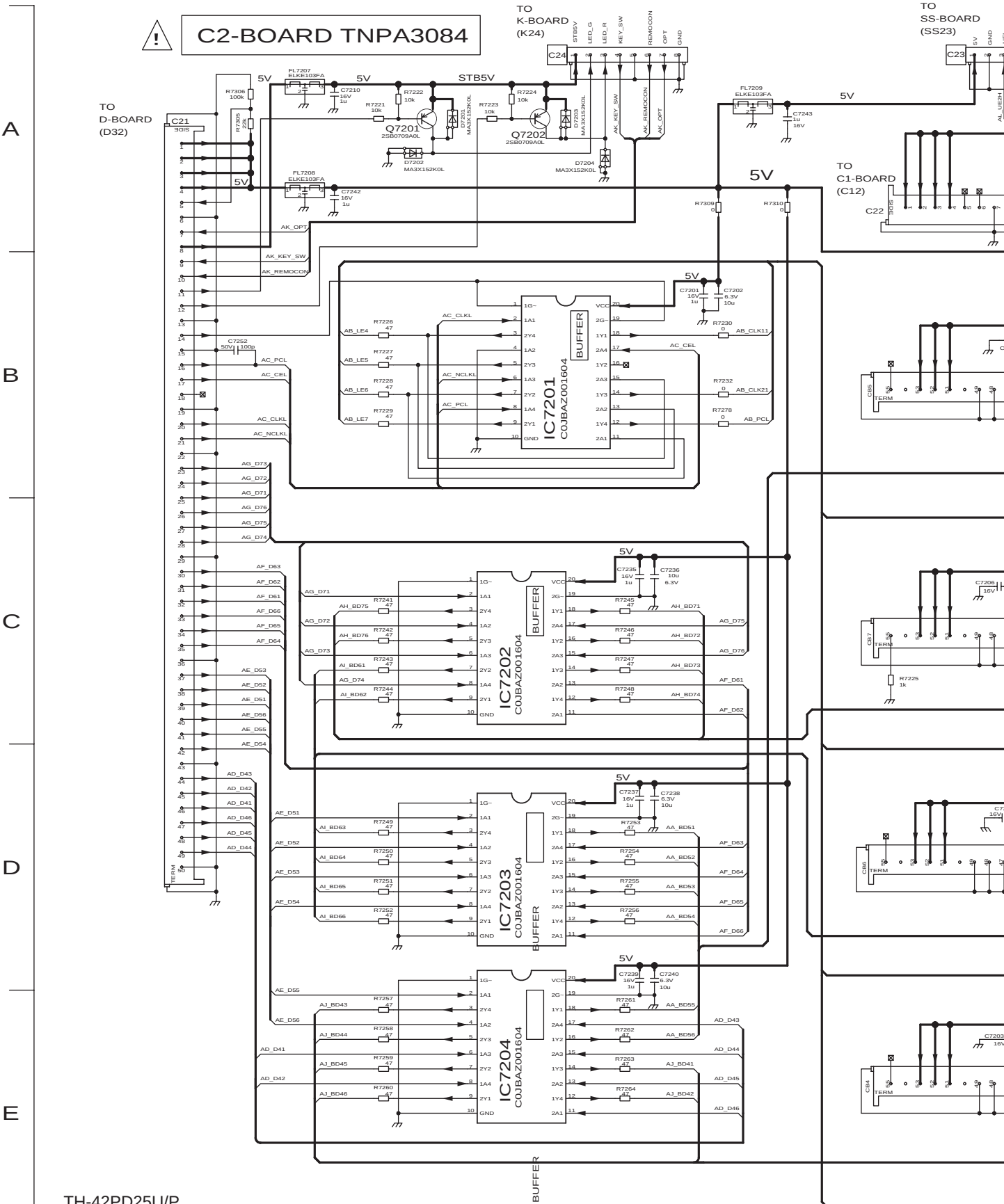


TH-37D25U/P
C2-Board(2 of 2) Schematic Diagram

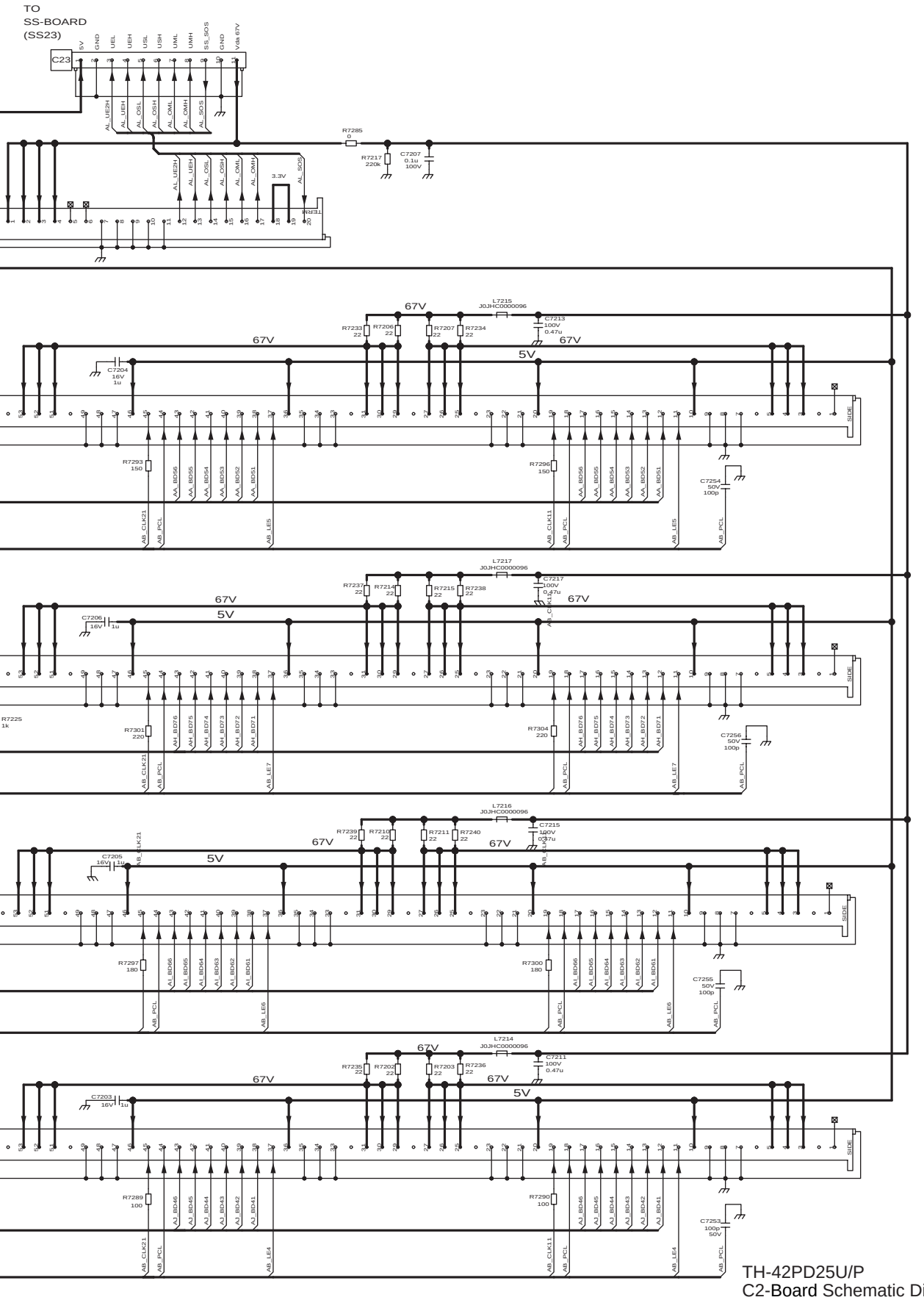
12 13 14 15

AB_CLK11

15.53. C2-Board Schematic Diagram (TH-42PD25U/P)



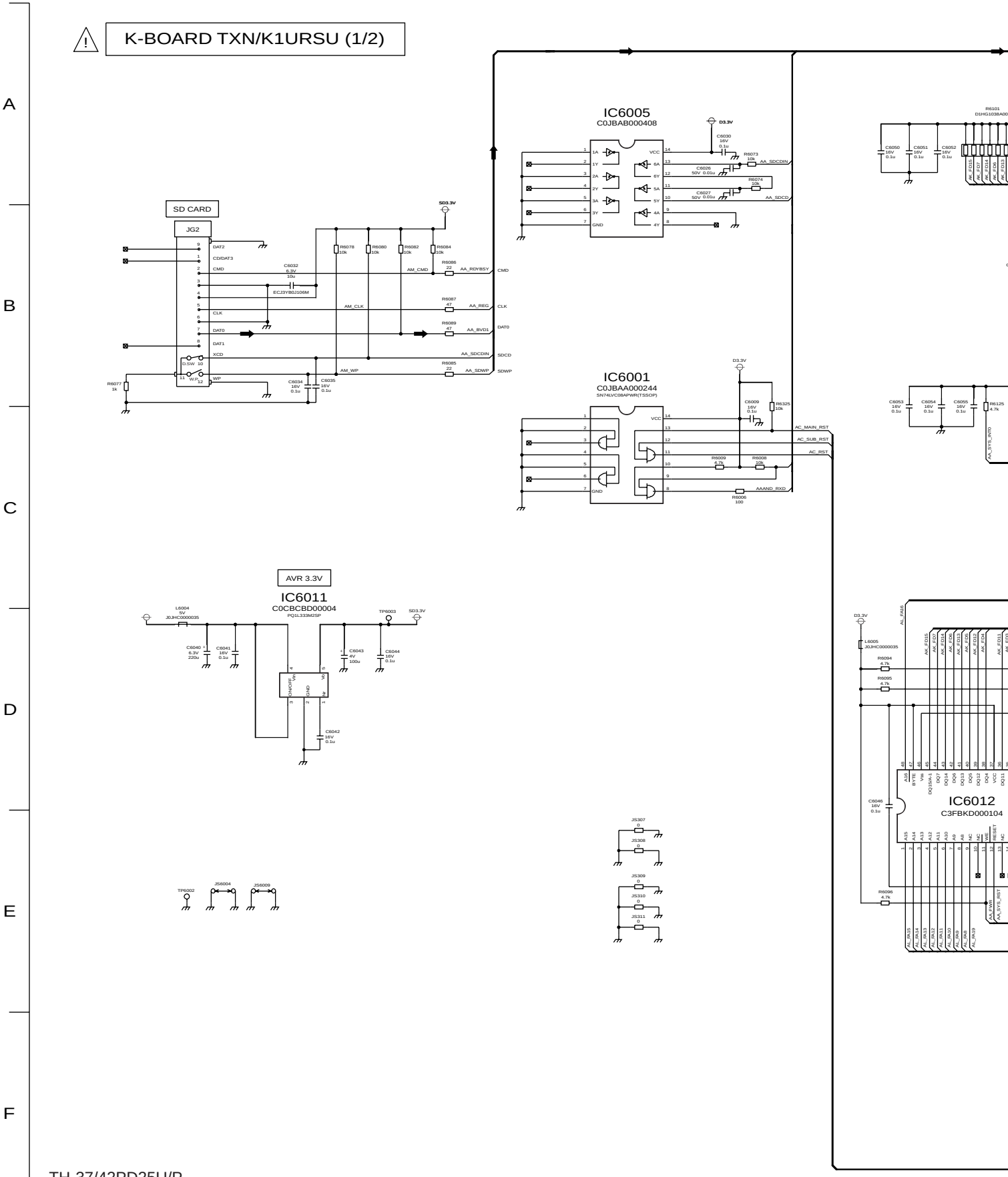
TH-42PD25U/P
C2-Board Schematic Diagram



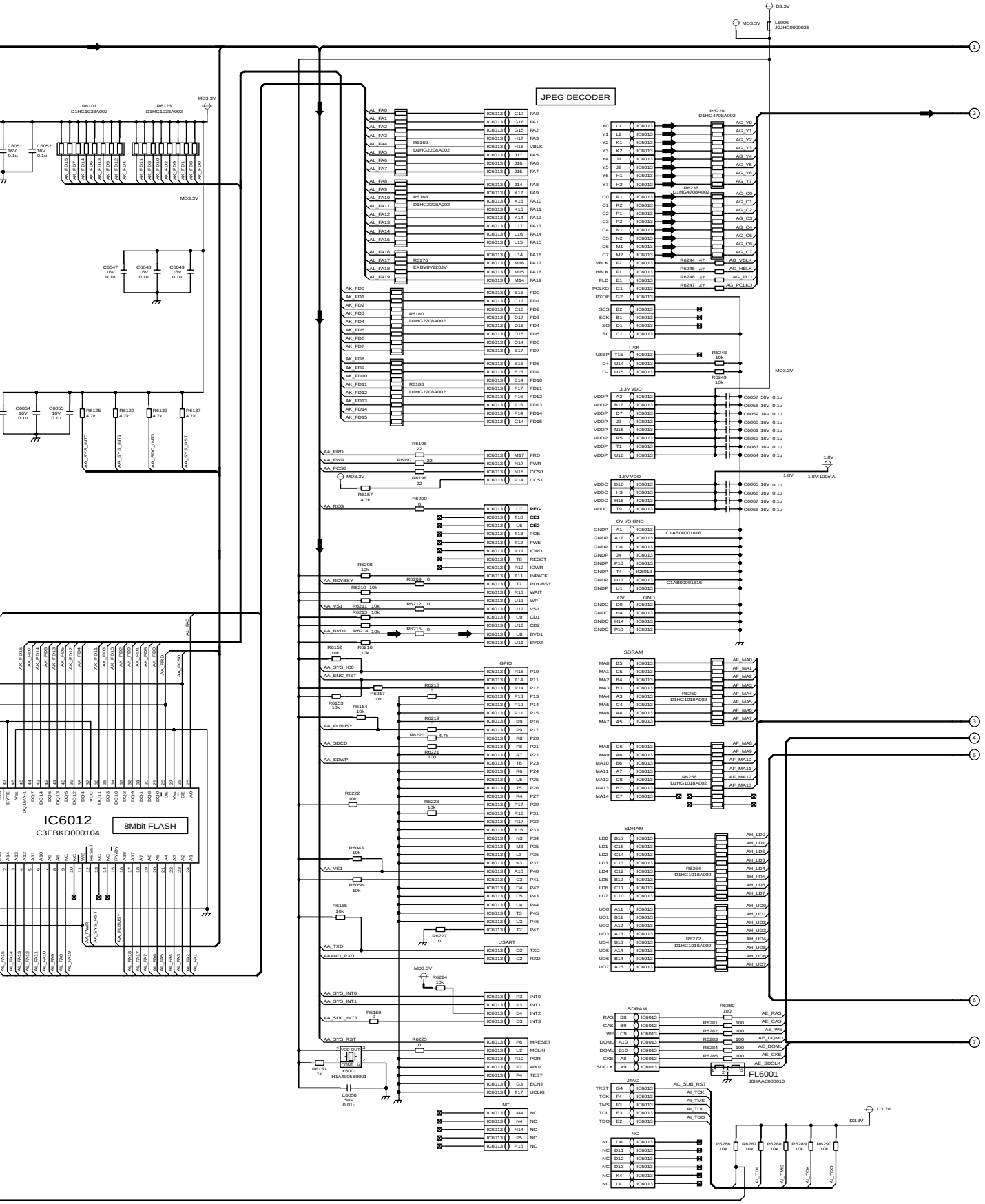
TH-42PD25U/P
C2-Board Schematic Diagram

4 5 6 7 8

15.54. K-Board (1 of 2) Schematic Diagram

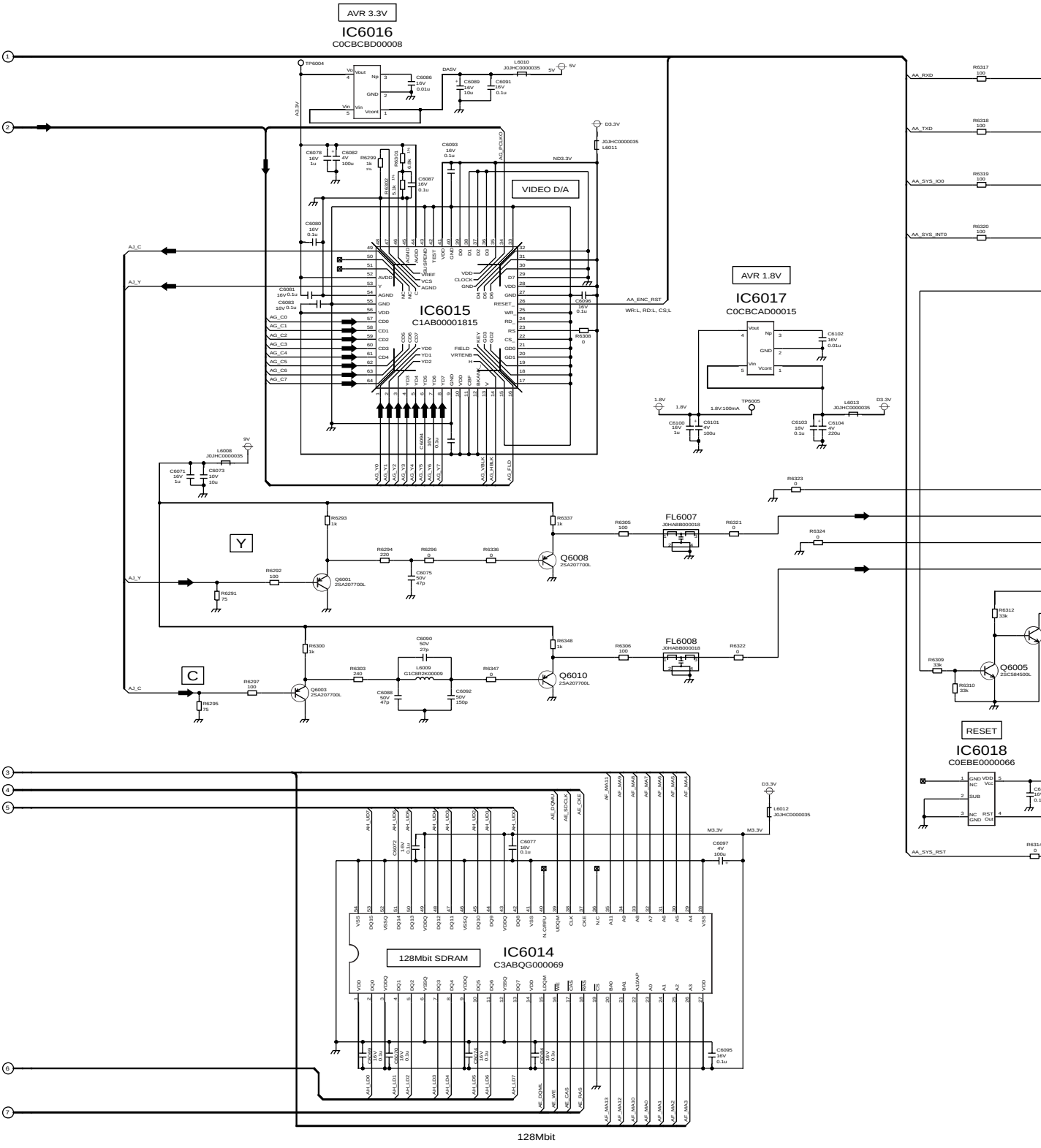


TH-37/42PD25U/P
K-Board (1 of 2) Schematic Diagram

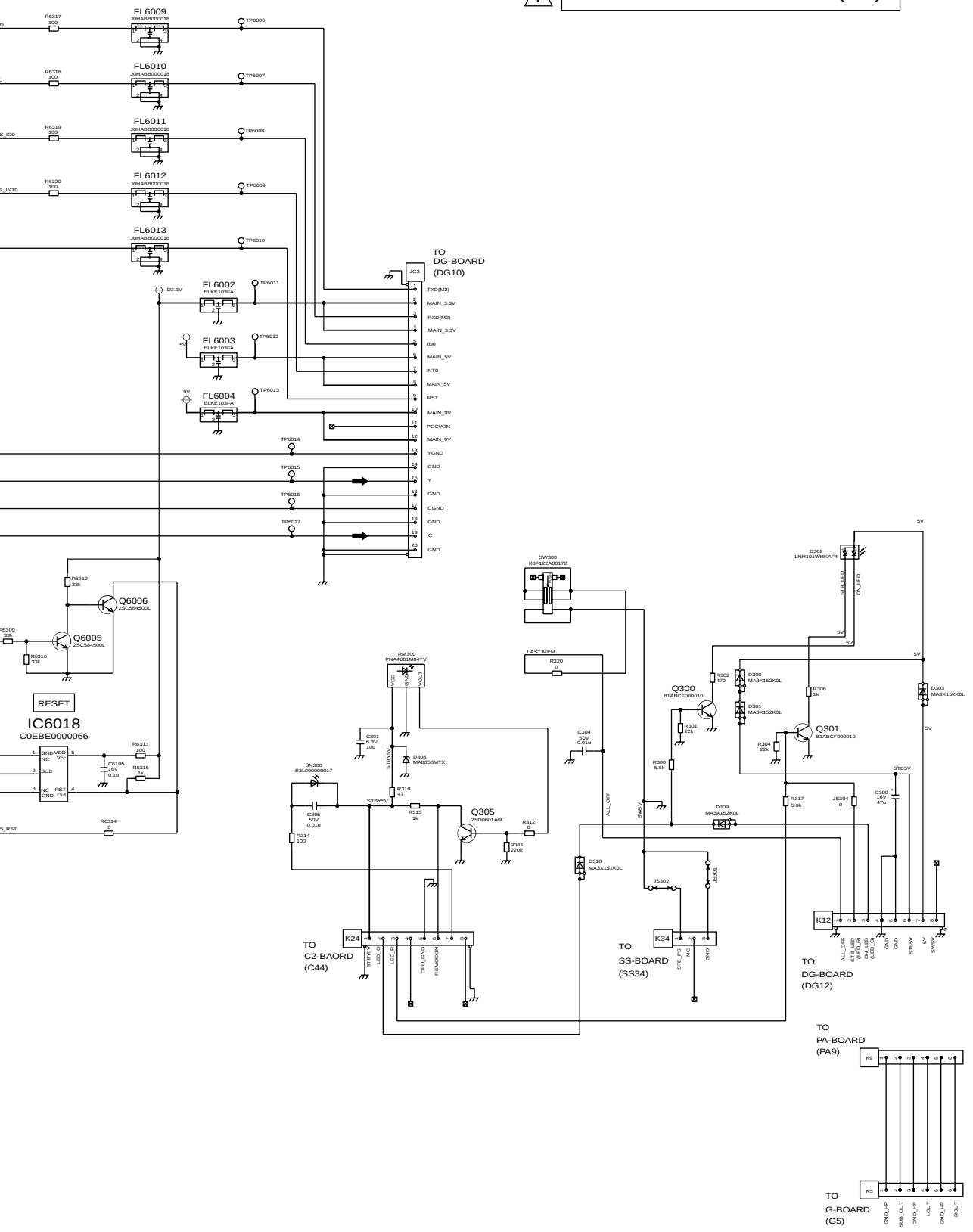


TH-37/42PD25U/P K-Board (1 of 2) Schematic Diagram

15.55. K-Board (2 of 2) Schematic Diagram

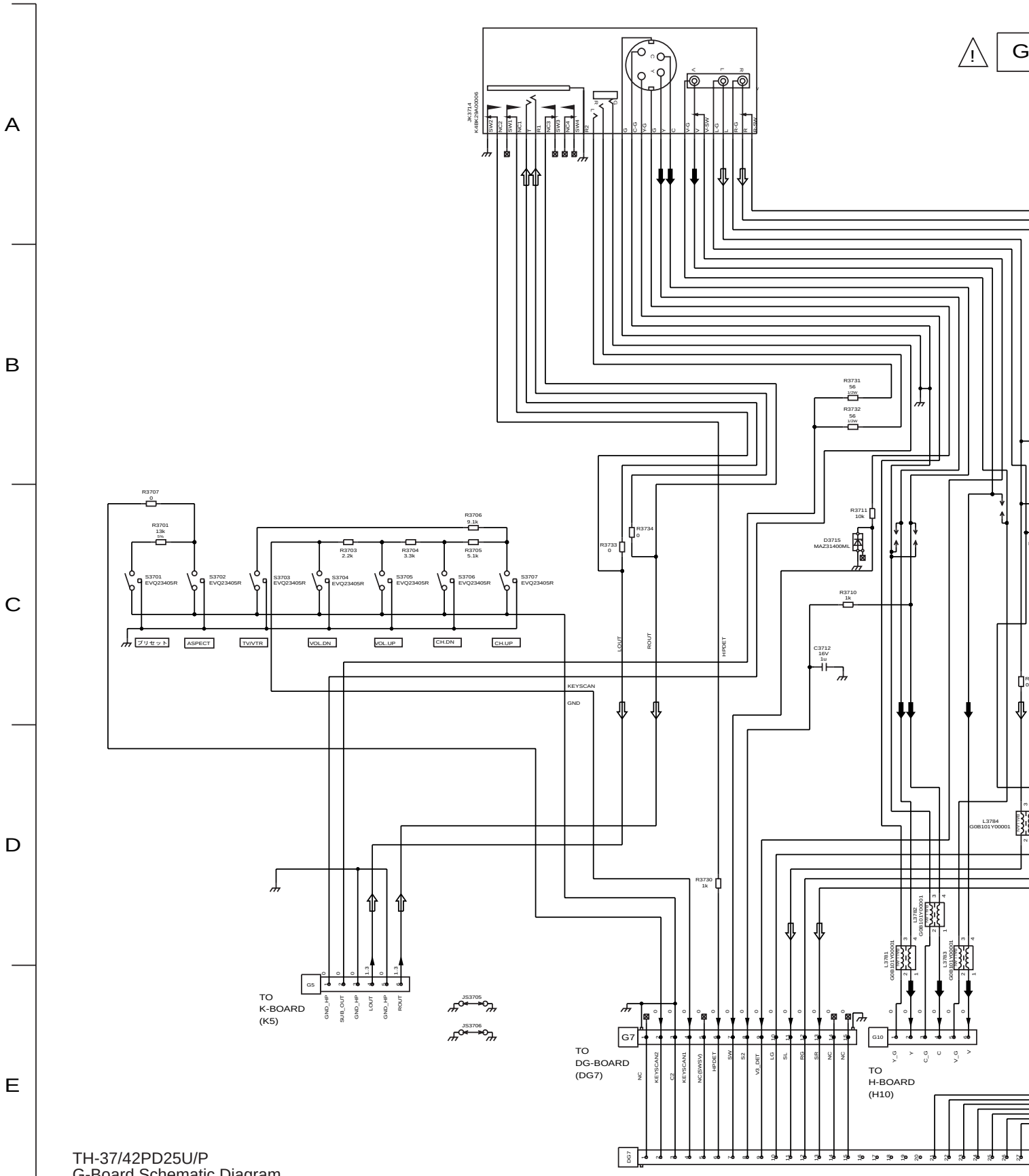


K-BOARD TXN/K1URSU (2/2)



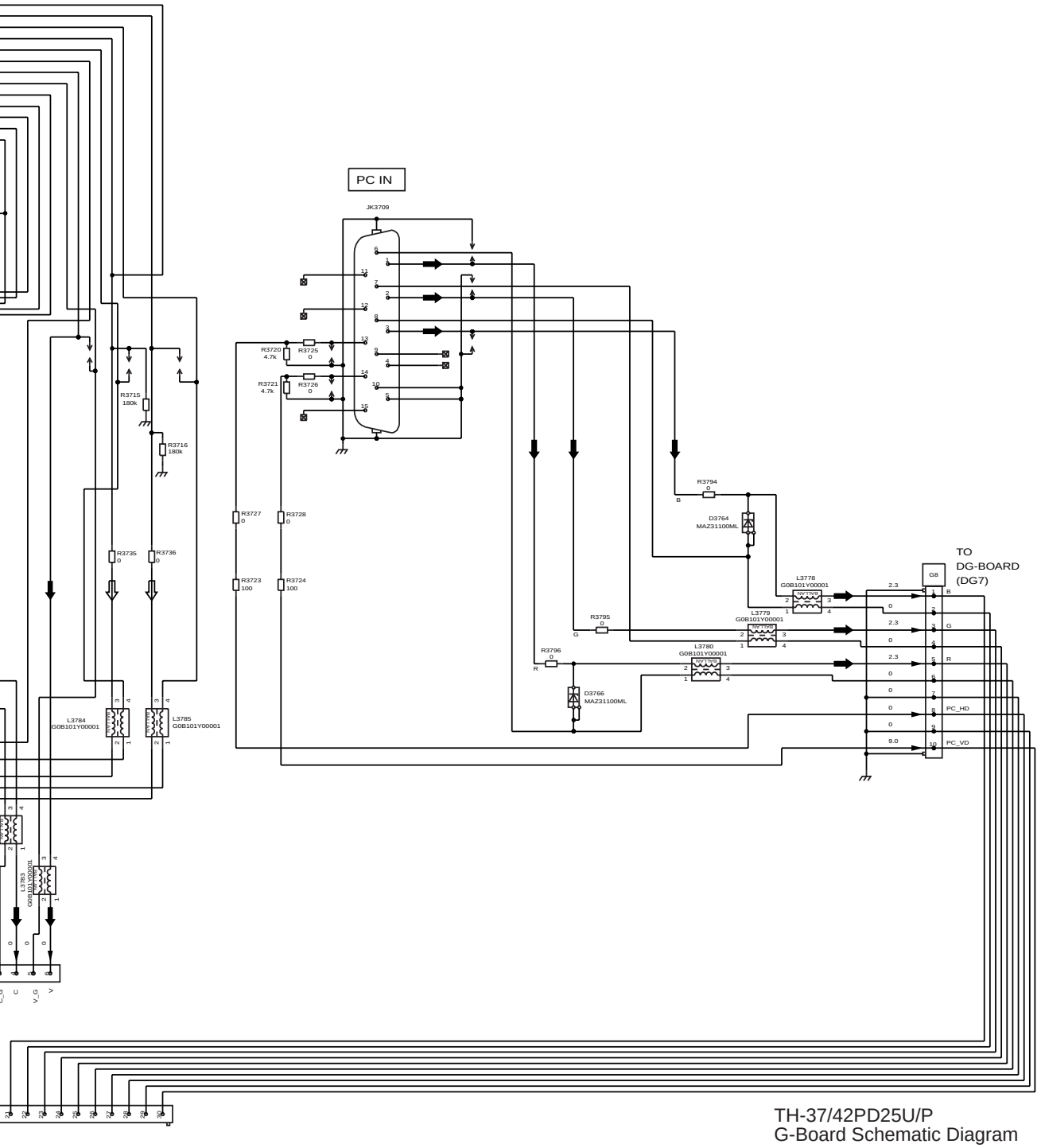
TH-37/42PD25U/P
K-Board (2 of 2) Schematic Diagram

15.56. G-Board Schematic Diagram



TH-37/42PD25U/P
G-Board Schematic Diagram

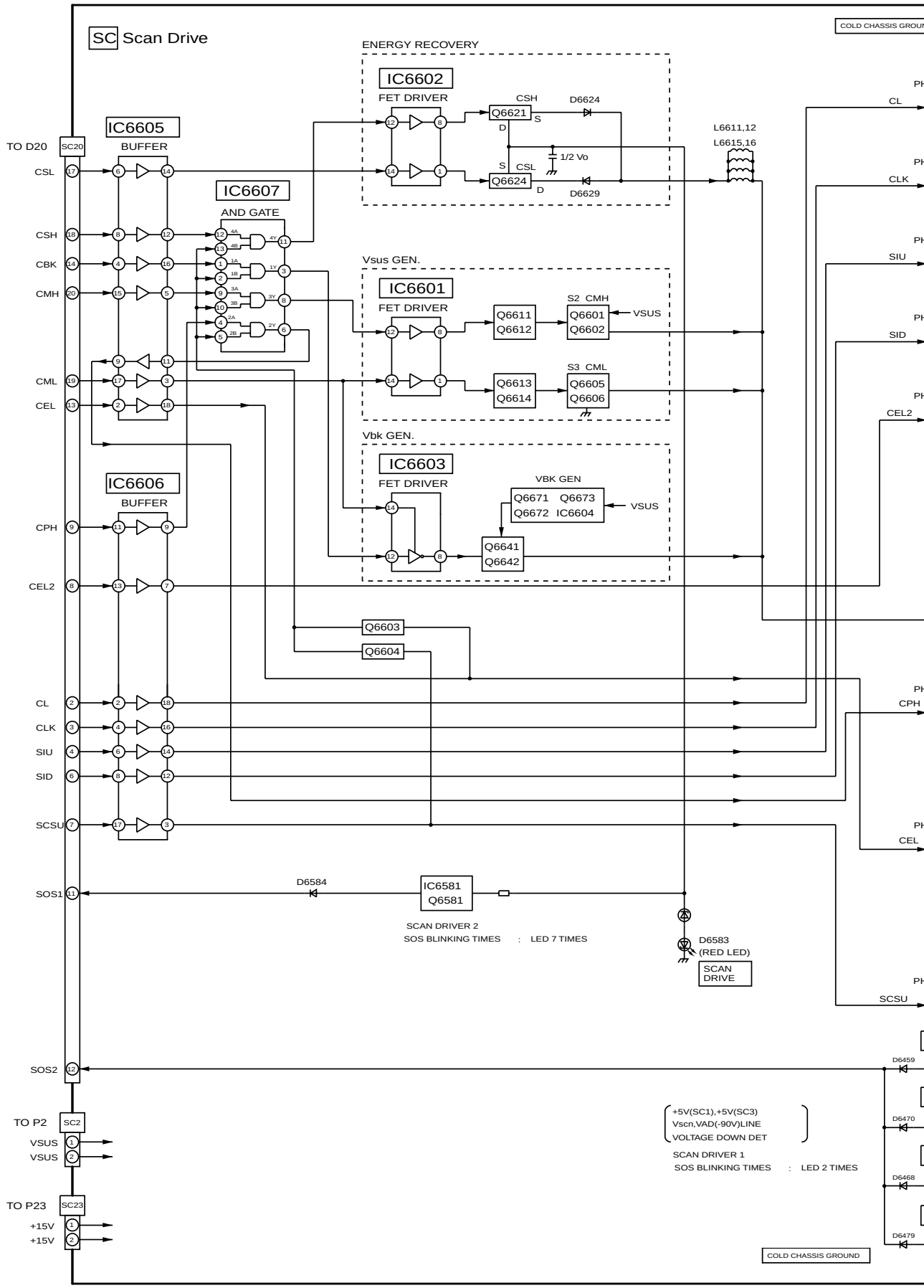
G-BOARD TXN/G1URSU



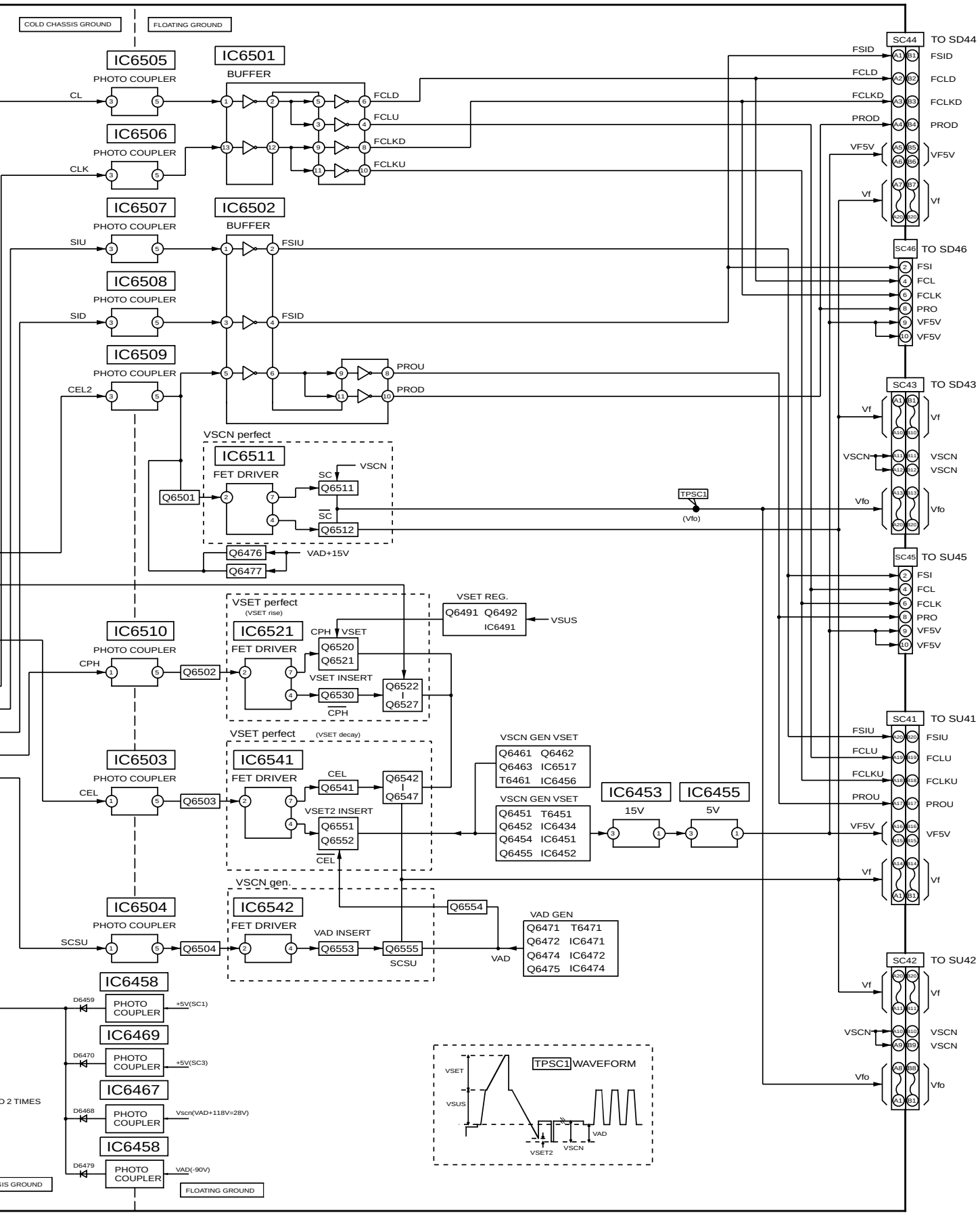
TH-37/42PD25U/P
G-Board Schematic Diagram

5 6 7 8

15.57. SC-Board Block Diagram

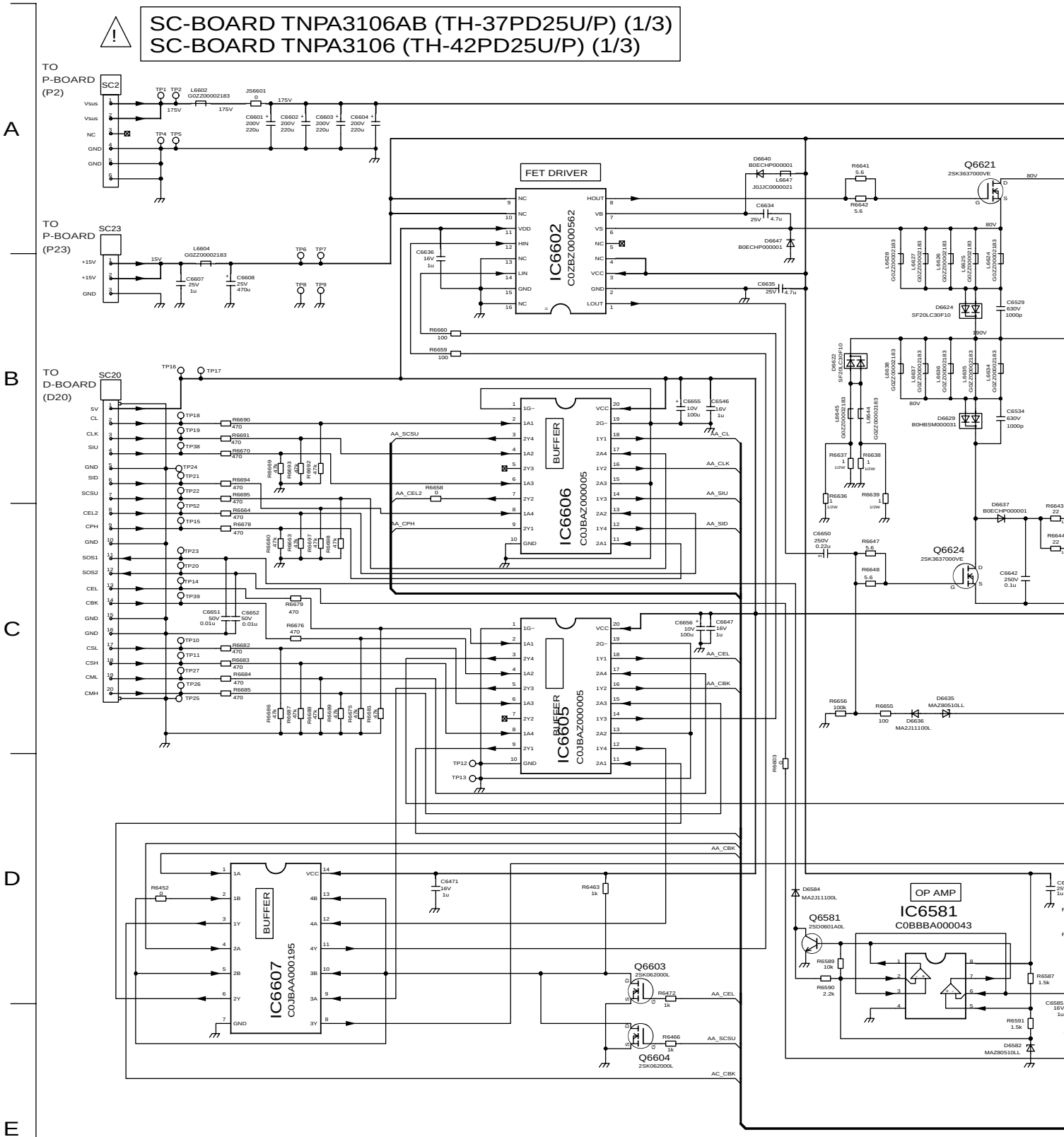


TH-37/42PD25U/P
SC-Board Block Diagram

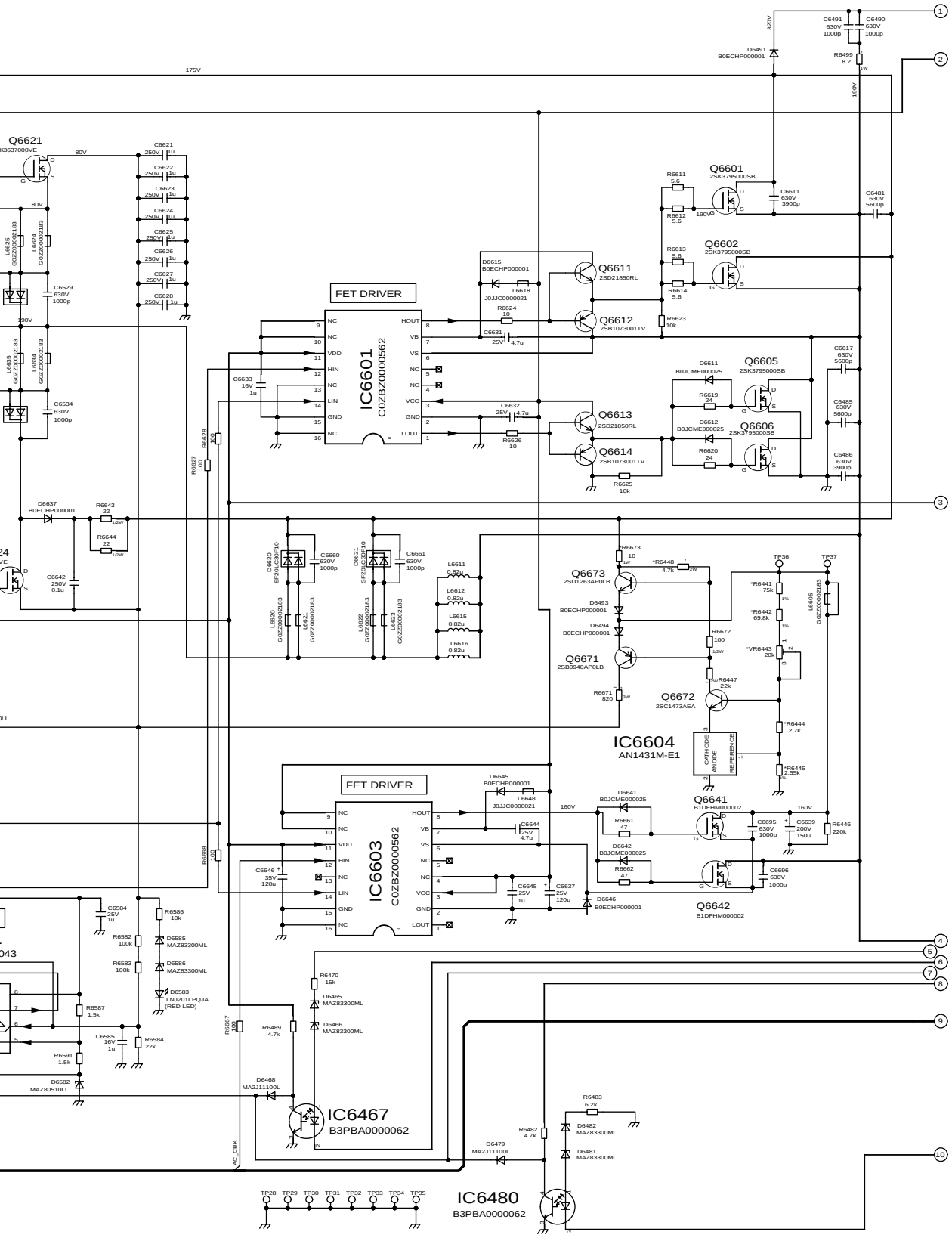


TH-37/42PD25U/P
SC-Board Block Diagram

15.58. SC-Board (1 of 3) Schematic Diagram

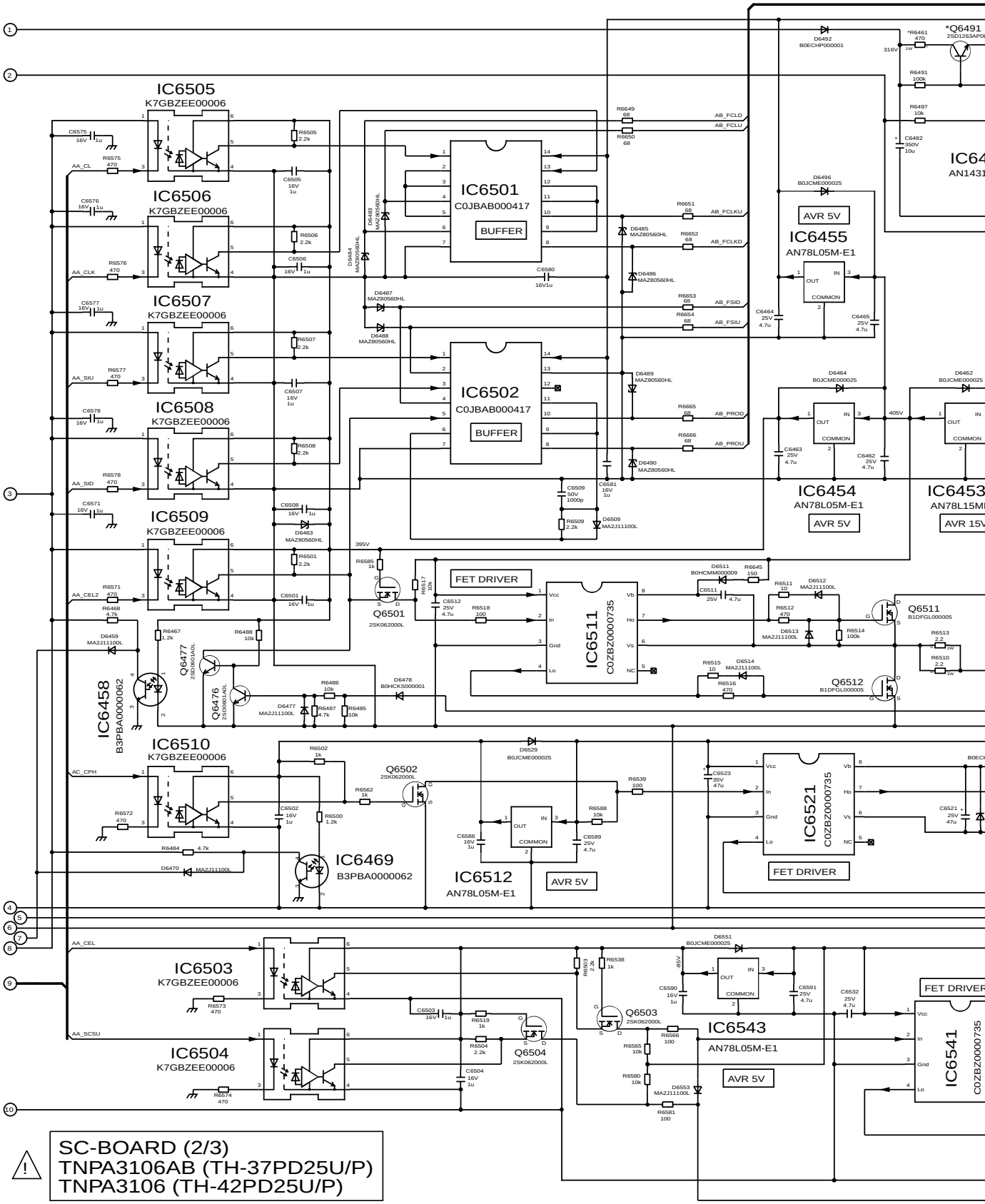


TH-37/42PD25U/P
SC-Board (1 of 3) Schematic Diagram



TH-37/42PD25U/P
SC-Board (1 of 3) Schematic Diagram

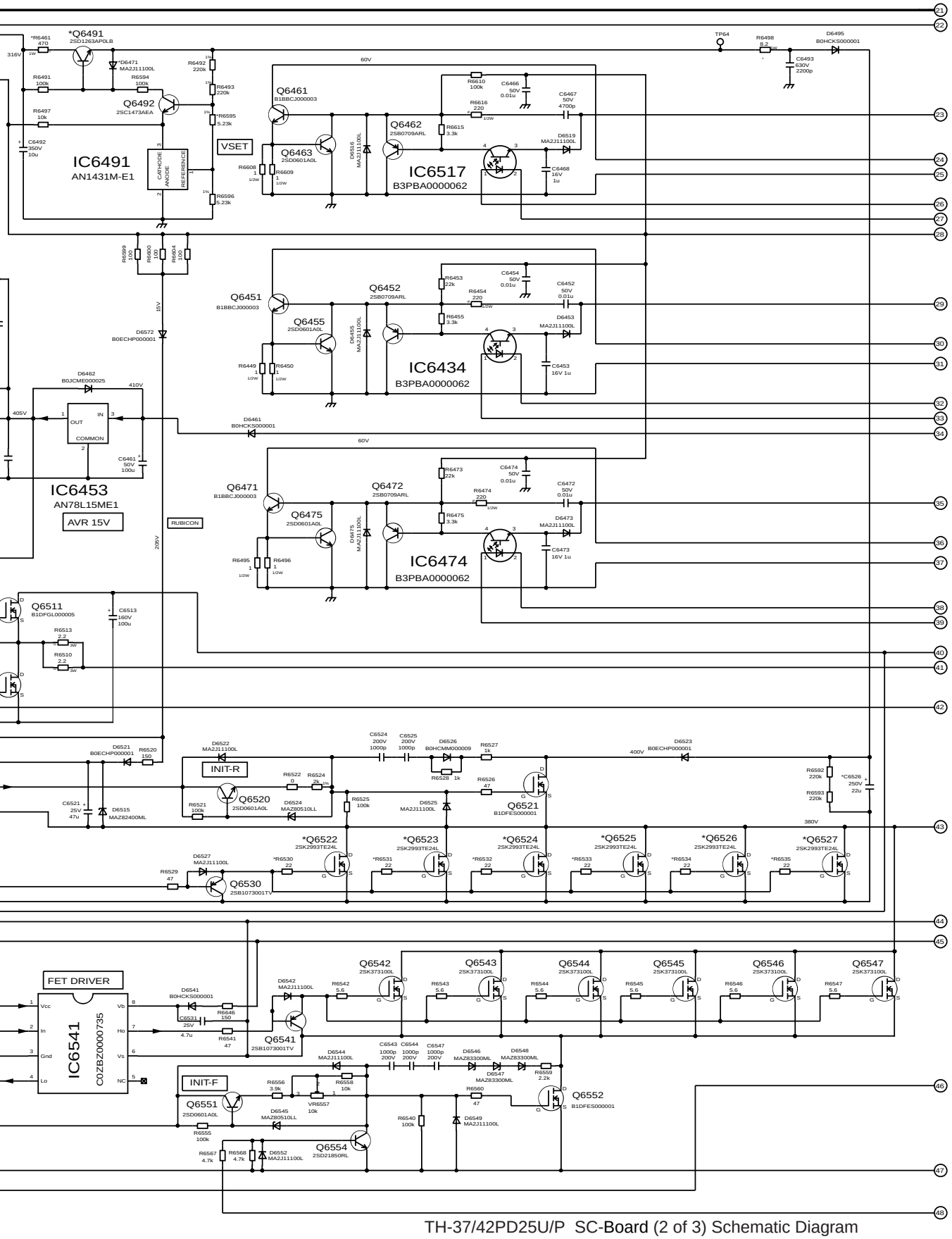
15.59. SC-Board (2 of 3) Schematic Diagram



SC-BOARD (2/3)
TNPA3106AB (TH-37PD25U/P)
TNPA3106 (TH-42PD25U/P)

TH-37/42PD25U/P
SC-Board (2 of 3) Schematic Diagram

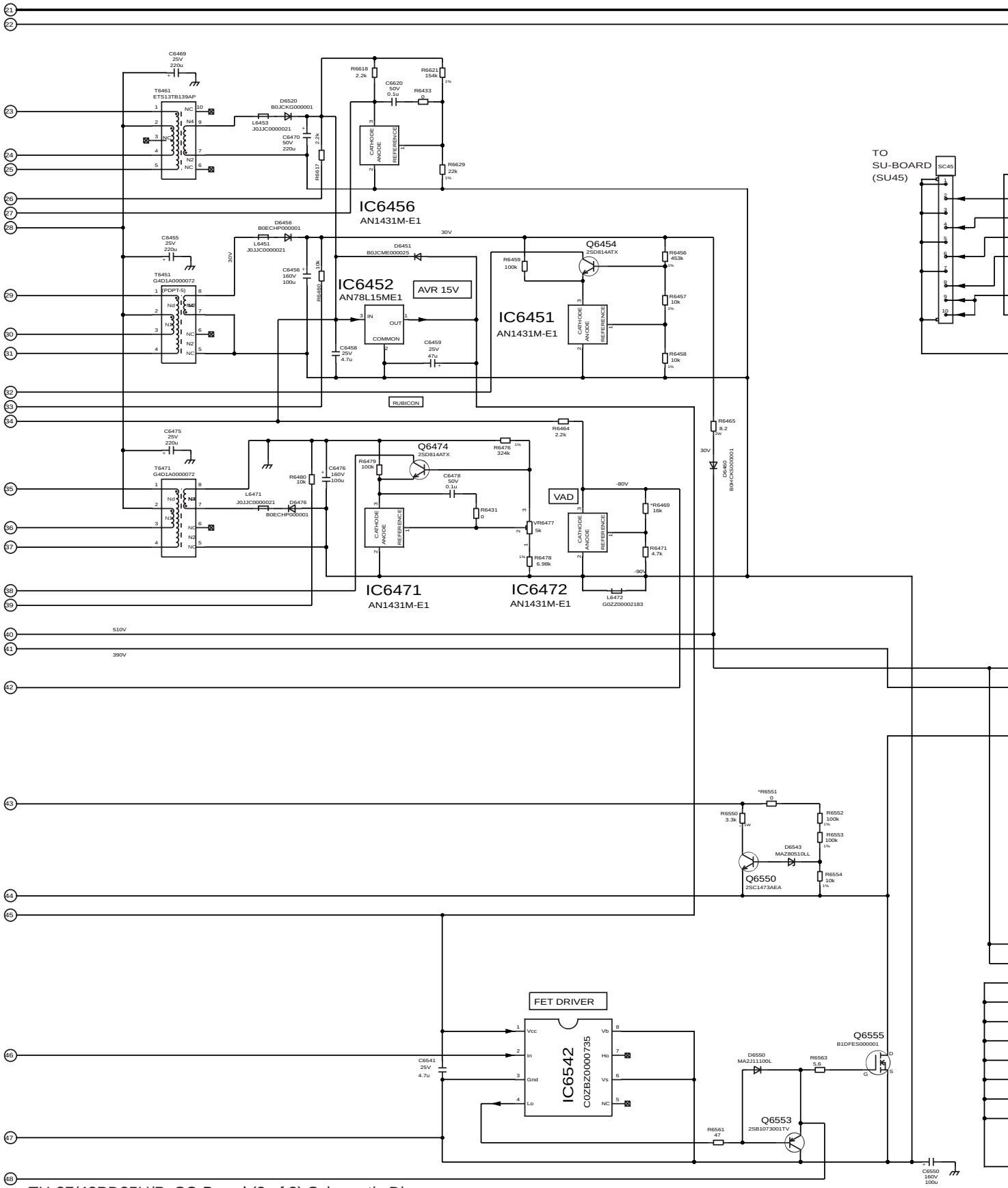
8 | 9 | 10 | 11 |



TH-37/42PD25U/P SC-Board (2 of 3) Schematic Diagram

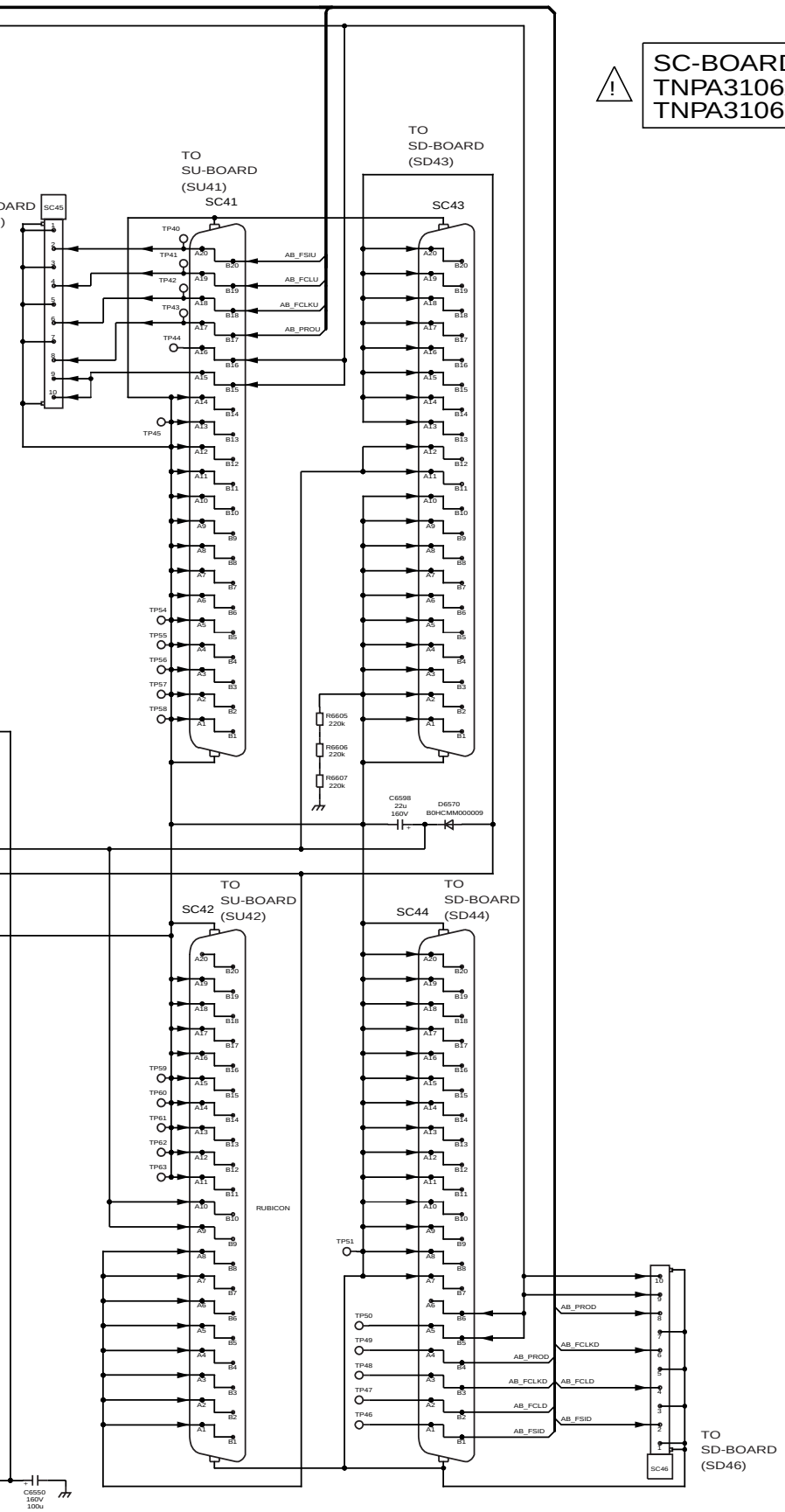
12 13 14 15

15.60. SC-Board (3 of 3) Schematic Diagram



TH-37/42PD25U/P SC-Board (3 of 3) Schematic Diagram

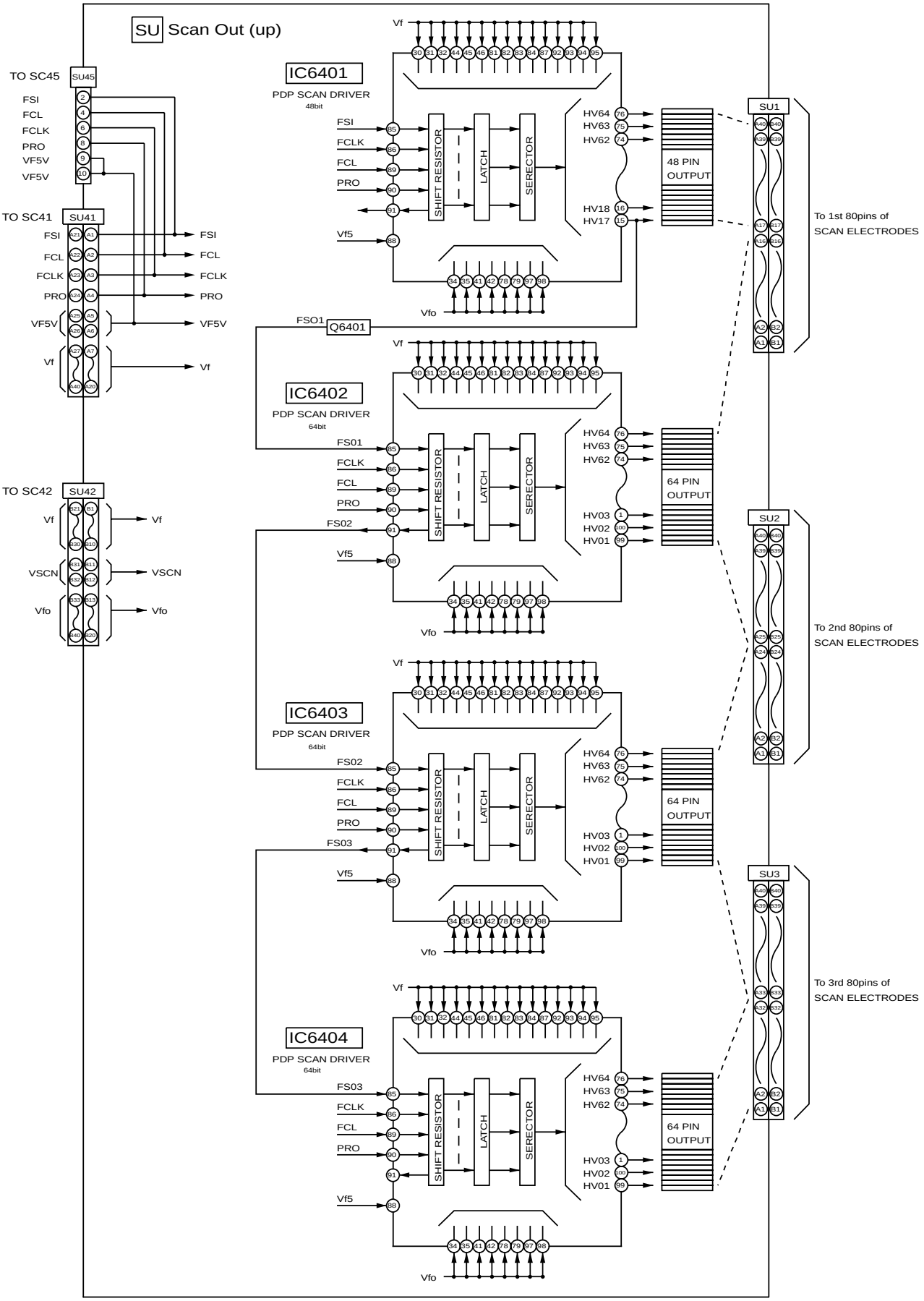
SC-BOARD (3/3)
TNPA3106AB (TH-37PD25U/P)
TNPA3106 (TH-42PD25U/P)



TH-37/42PD25U/P
SC-Board (3 of 3) Schematic Diagram

20 21 22 23

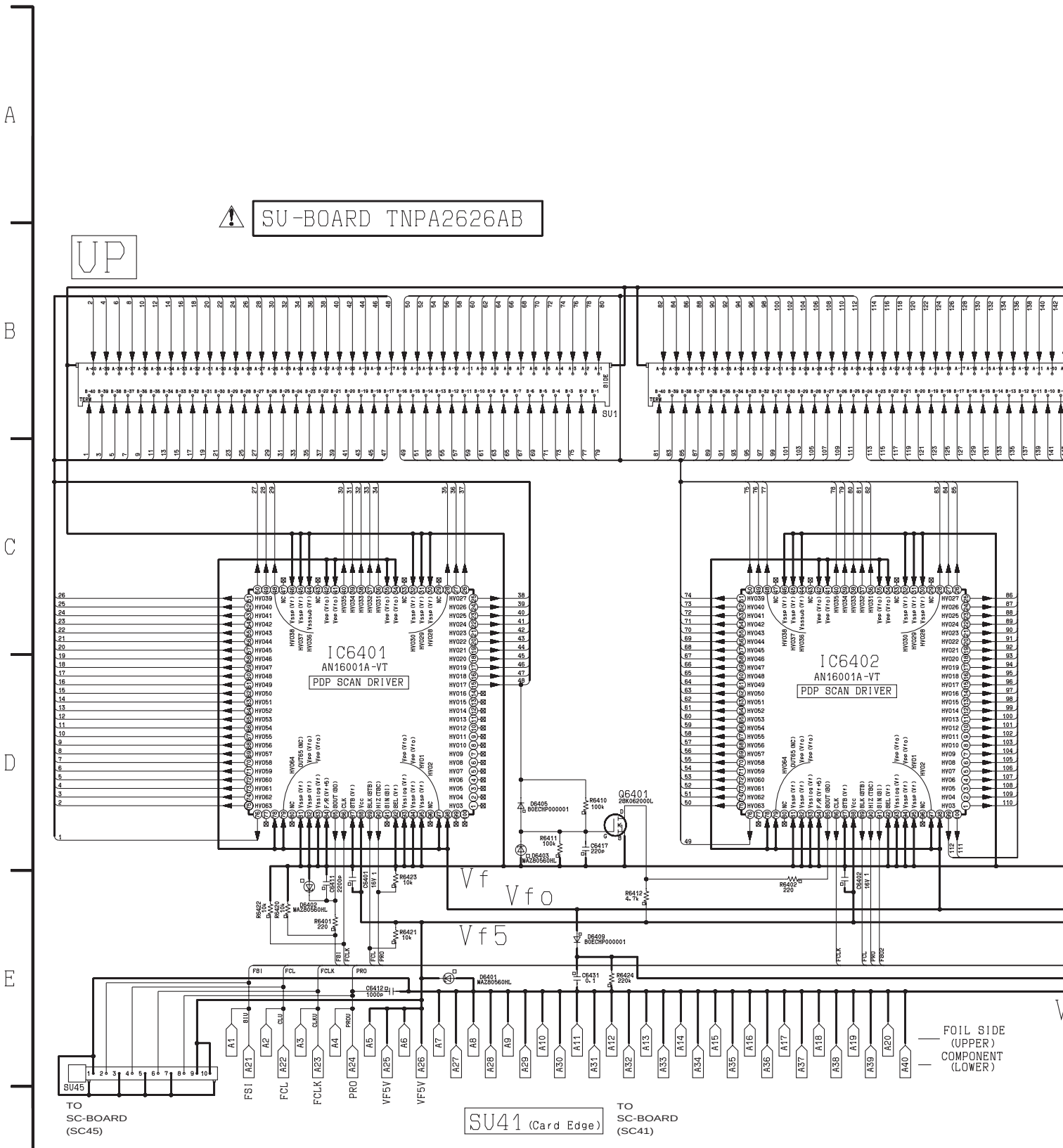
15.61. SU-Board Block Diagram



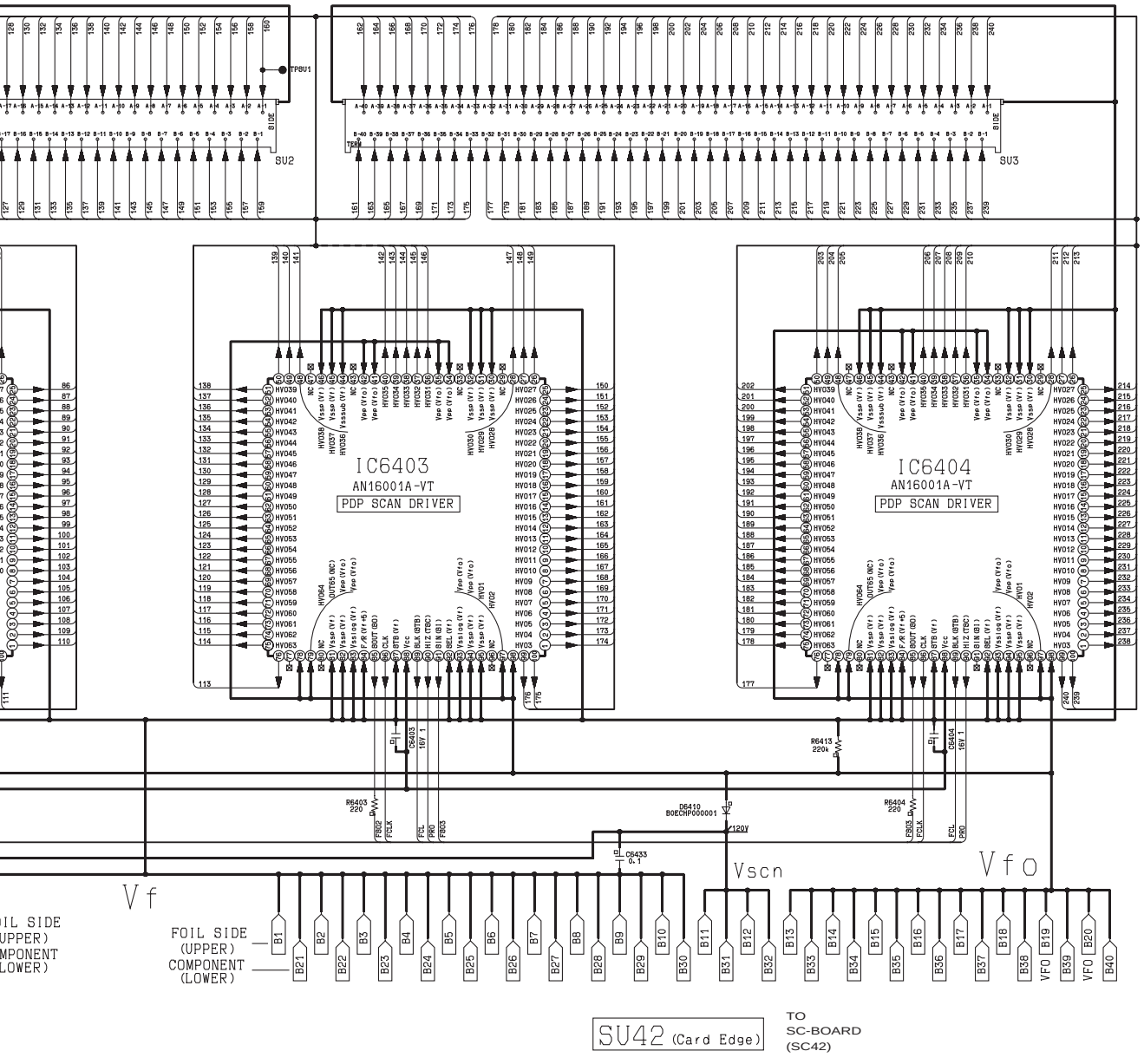
TH-37/42PD25U/P
SU-Board Block Diagram

TH-37/42PD25U/P
SU-Board Block Diagram

15.62. SU-Board Schematic Diagram (TH-37PD25U/P)



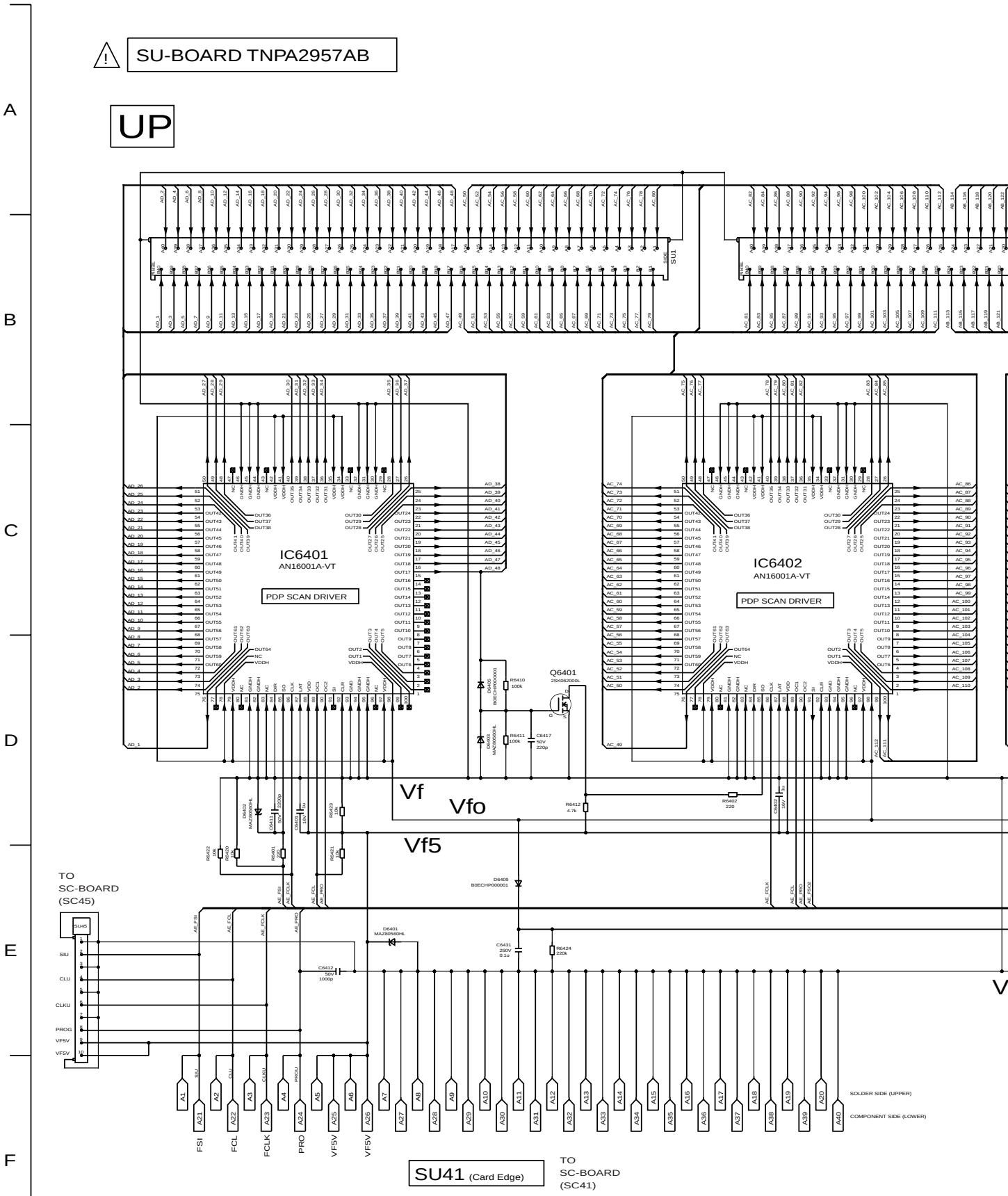
TH-37PD25U/P
SU-Board Schematic Diagram



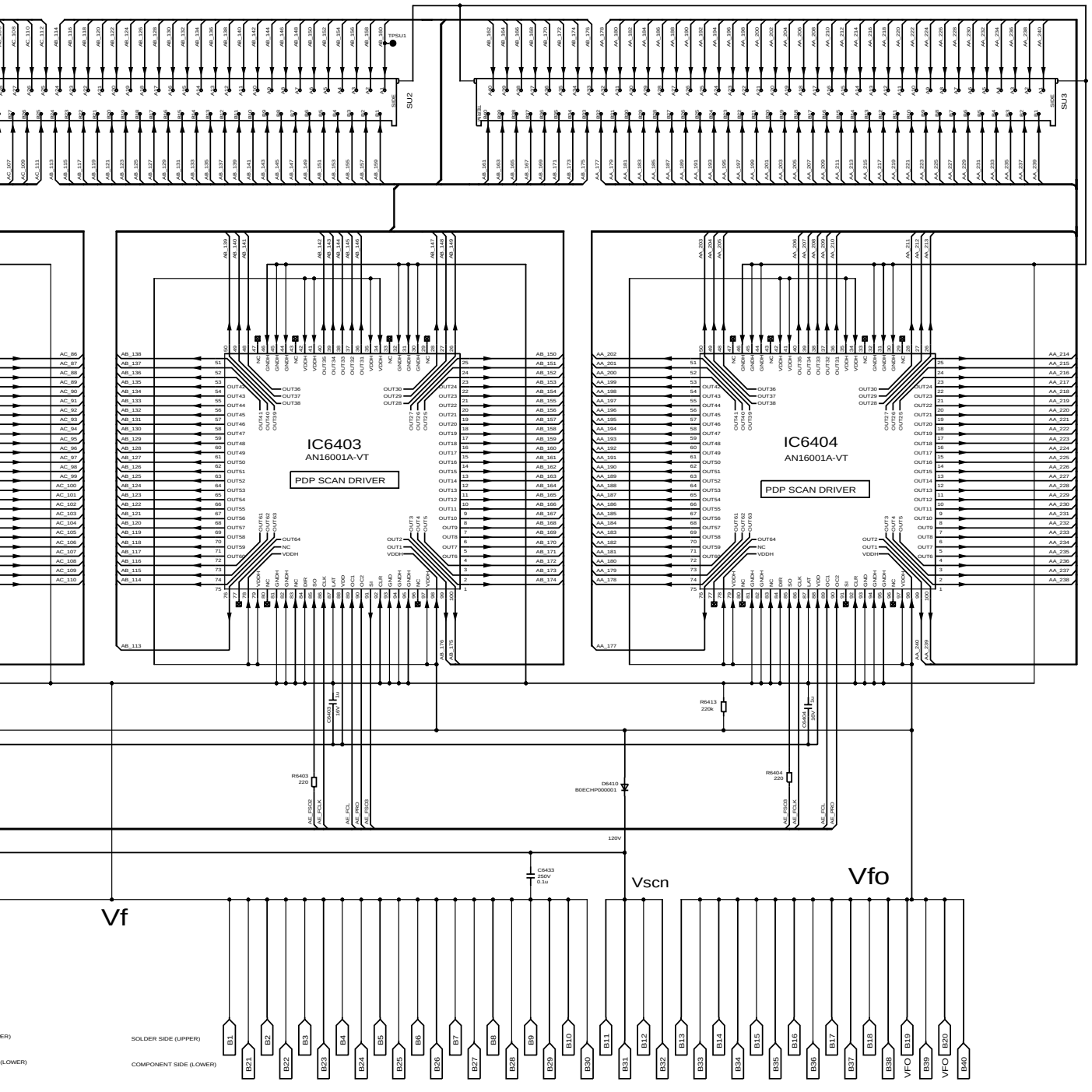
TH-37PD25U/P
SU-Board Schematic Diagram

5 6 7 8 9

15.63. SU-Board Schematic Diagram (TH-42PD25U/P)



TH-42PD25U/P
SU-Board Schematic Diagram



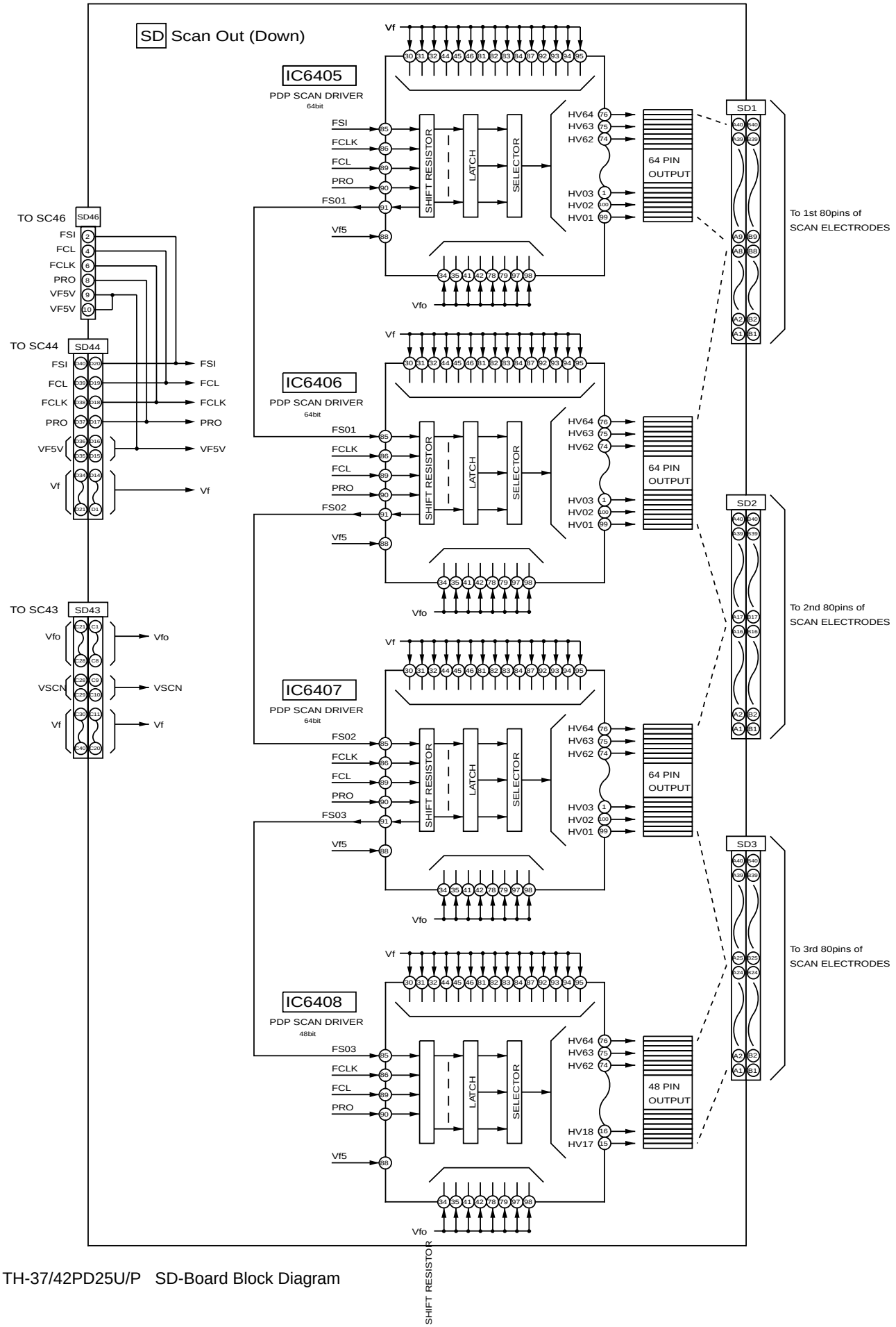
SU42 (Card Edge)

TO
SC-BOARD
(SC42)

TH-42PD25U/P
SU-Board Schematic Diagram

5 6 7 8 9

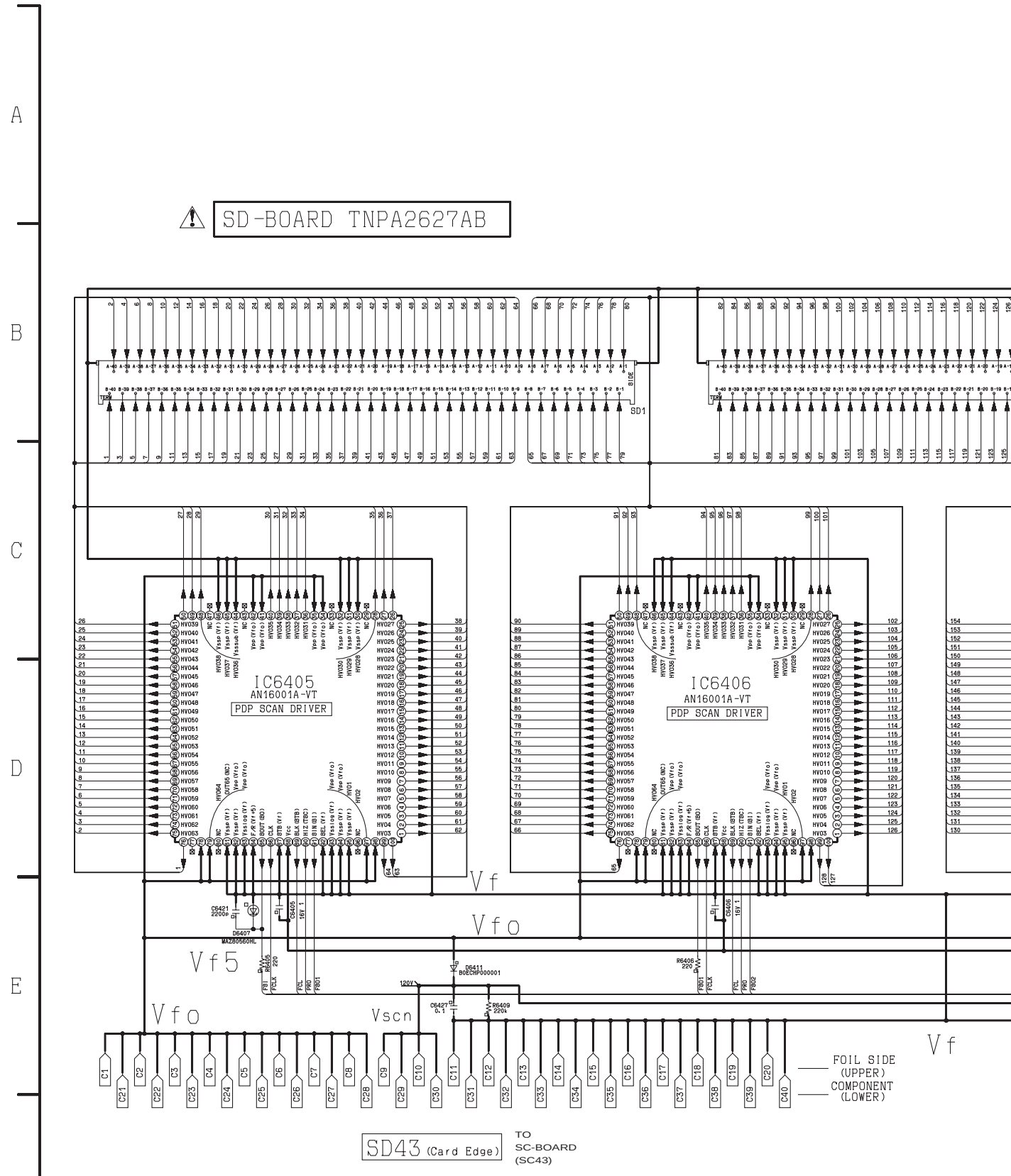
15.64. SD-Board Block Diagram



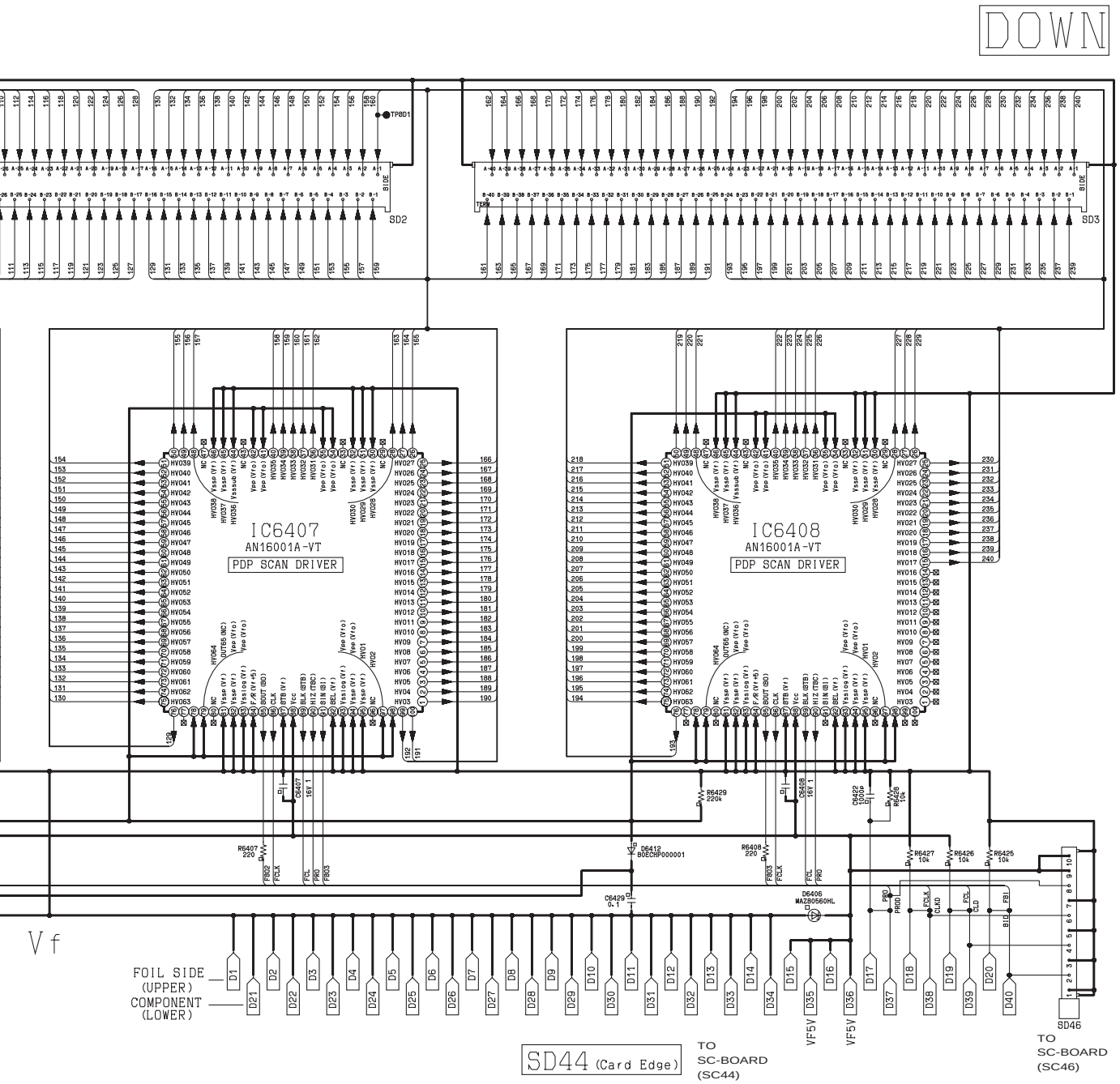
TH-37/42PD25U/P SD-Board Block Diagram

TH-37/42PD25U/P
SD-Board Block Diagram

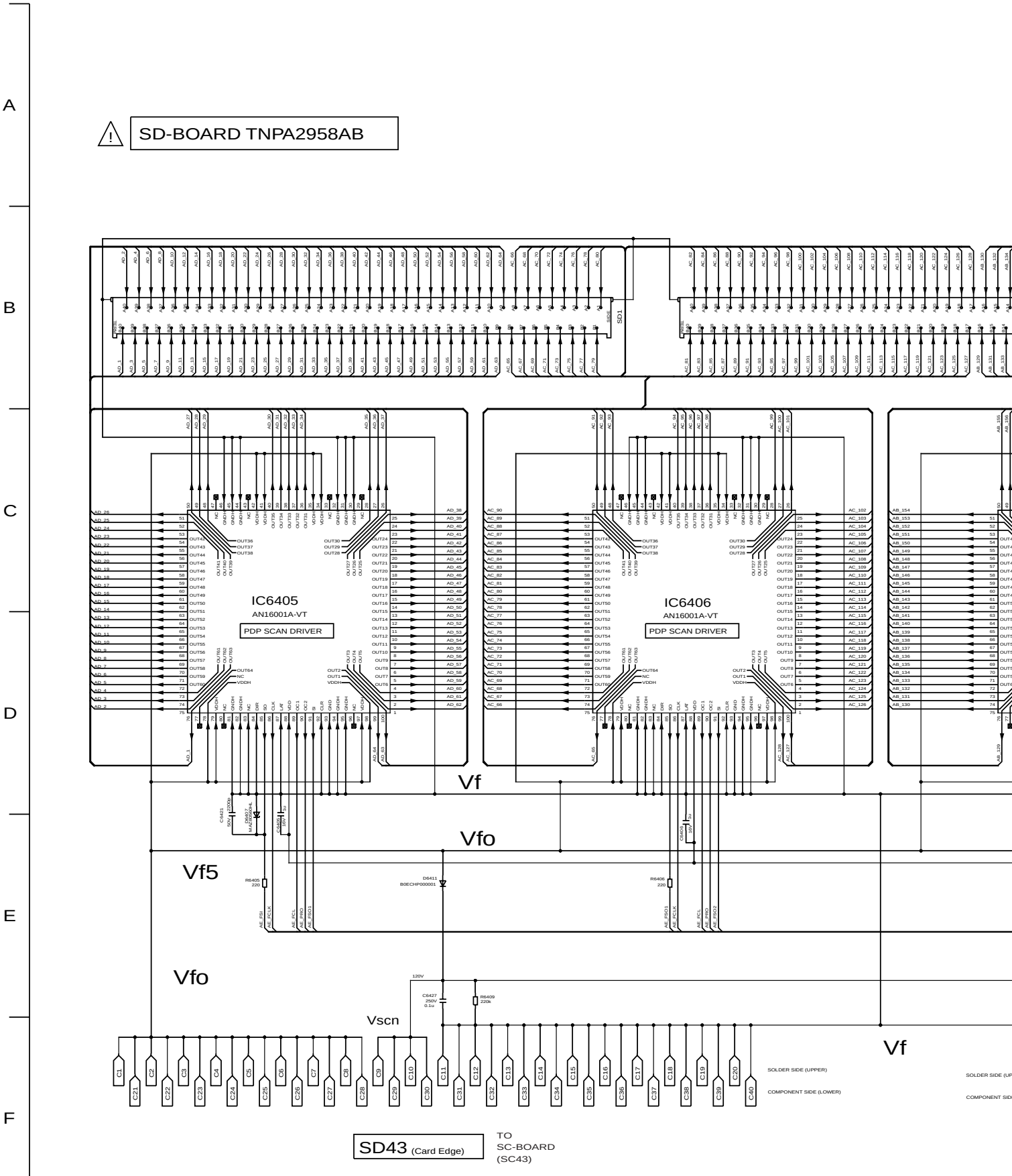
15.65. SD-Board Schematic Diagram (TH-37PD25U/P)



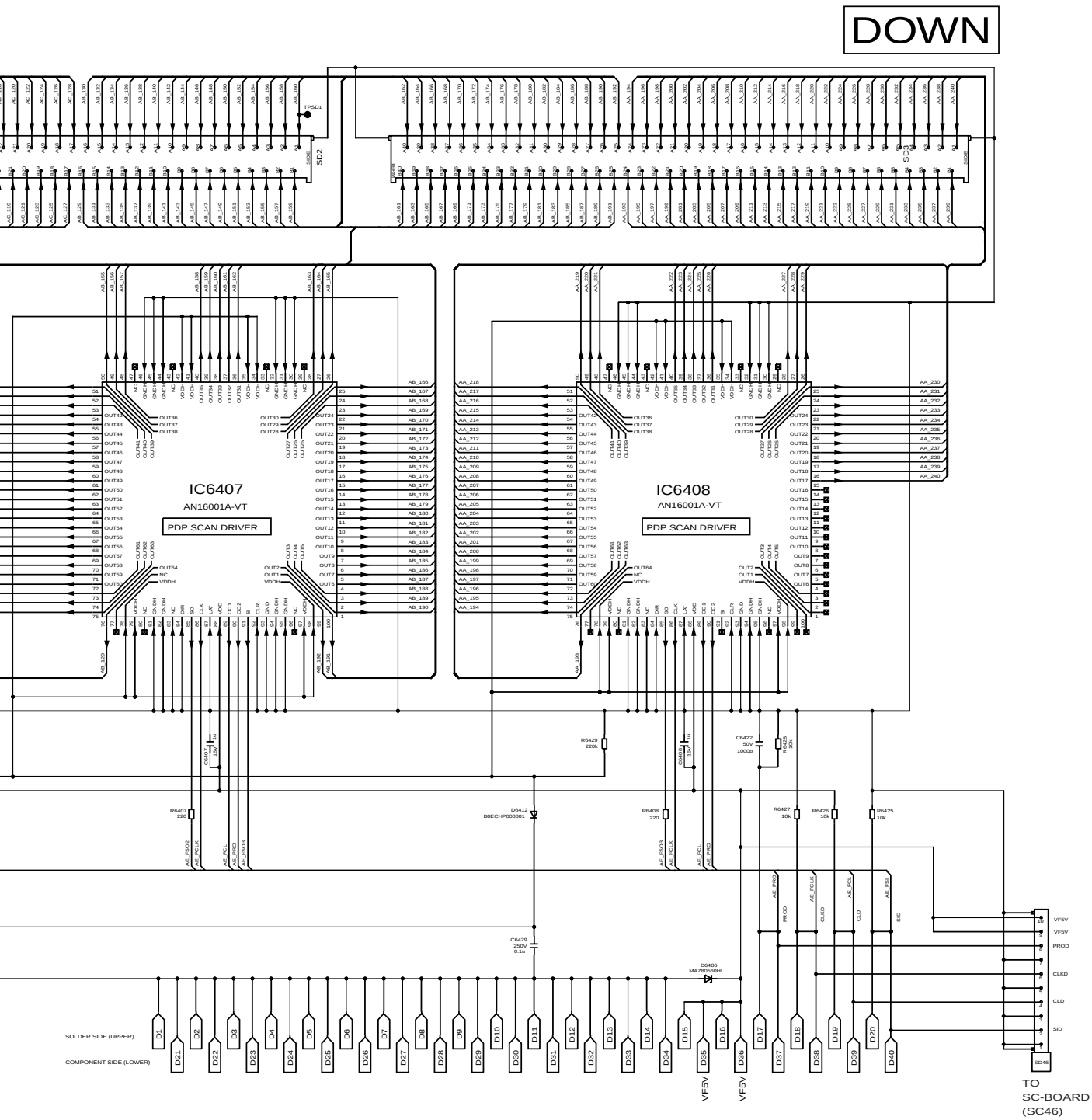
TH-37PD25U/P
SD-Board Schematic Diagram


DOWN
SD2
SD3
IC6407
AN16001A-VT
PDP SCAN DRIVER
IC6408
AN16001A-VT
PDP SCAN DRIVER
C6407
16V 1
C6408
16V 1
C6429
0.1
R6407
220
R6408
220
R6412
B0E3MP000001
R6425
10k
R6426
10k
R6427
10k
R6429
220k
D6406
MAZS056HL
FOIL SIDE (UPPER)
COMPONENT (LOWER)
SD44 (Card Edge)
TO SC-BOARD (SC44)
SD46
TO SC-BOARD (SC46)
VF5V
VF5V
Vf

15.66. SD-Board Schematic Diagram (TH-42PD25U/P)



TH-42PD25U/P
SD-Board Schematic Diagram



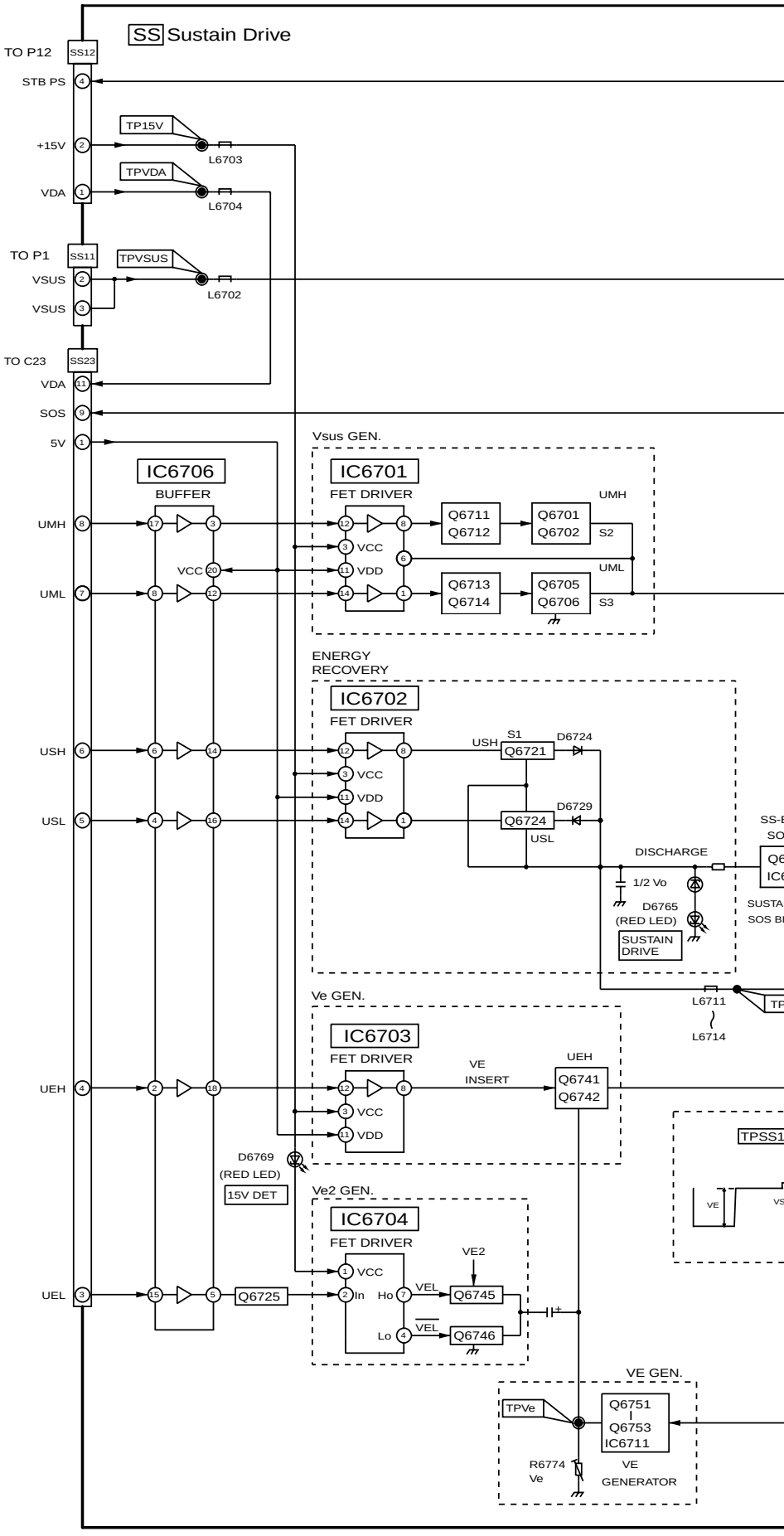
SD44 (Card Edge)

TO
SC-BOARD
(SC44)

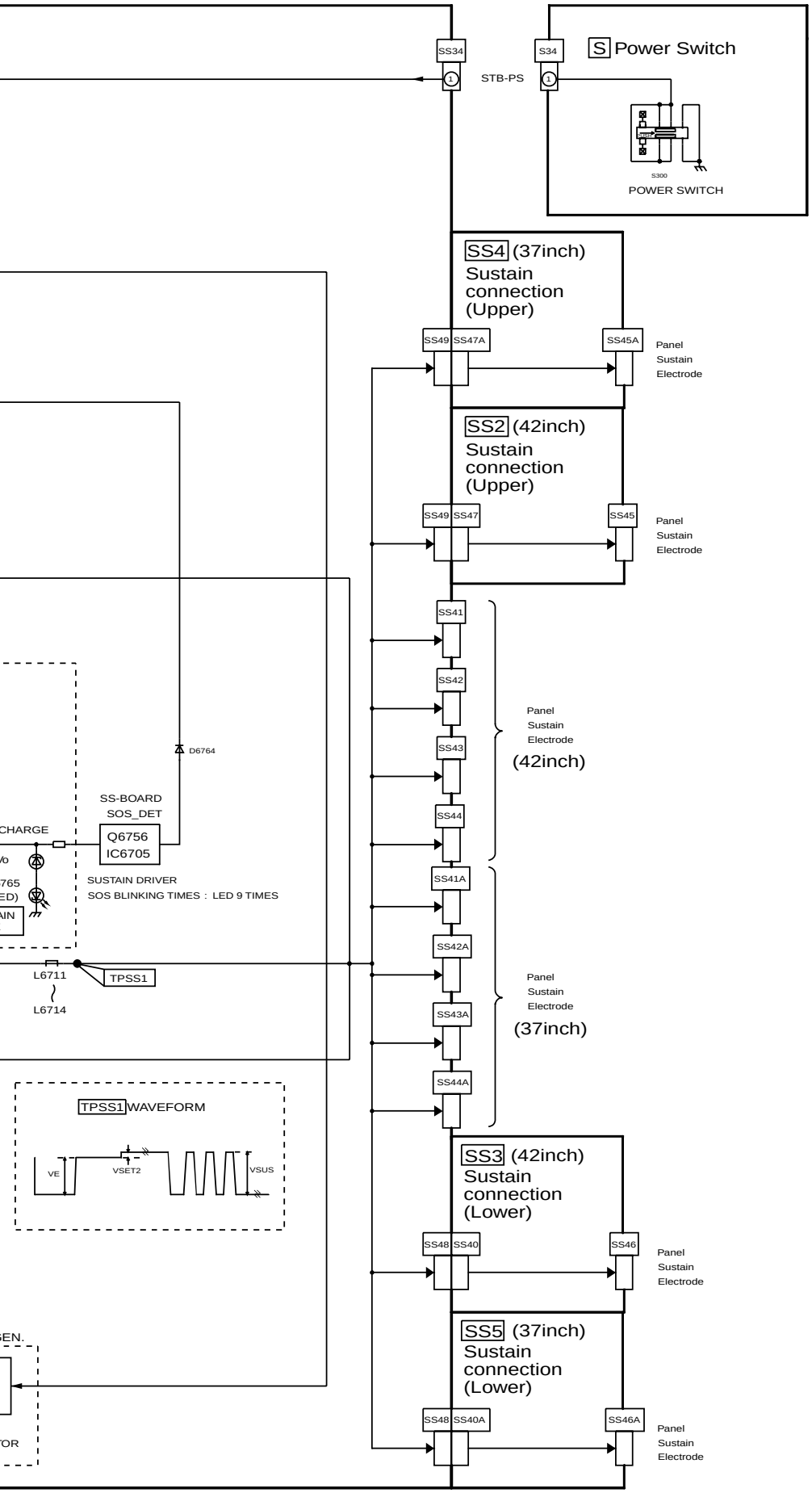
TH-42PD25U/P
SD-Board Schematic Diagram

5 6 7 8 9

15.67. SS, S, SS2, SS3, SS4 and SS5-Board Block Diagram

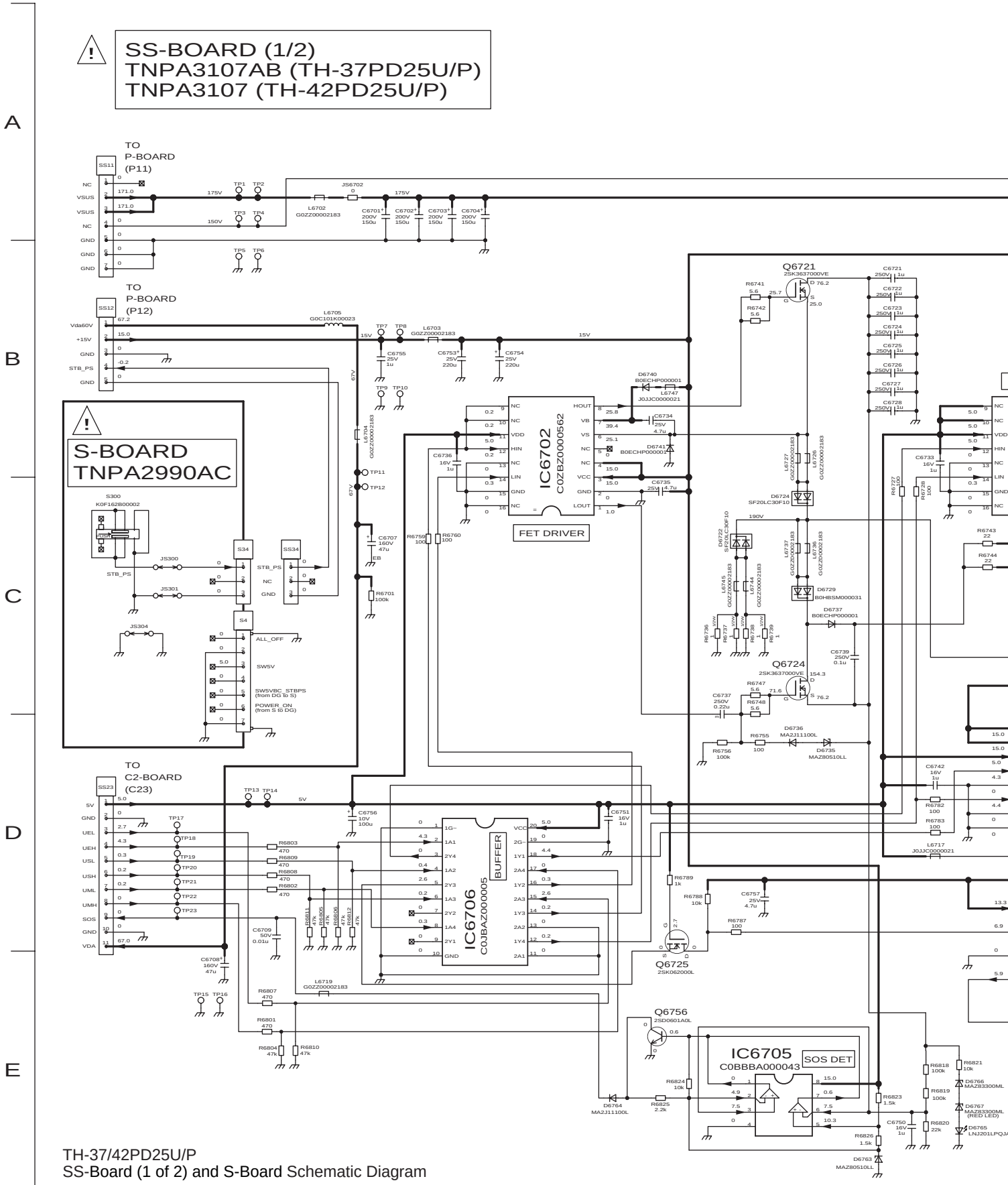


TH-37/42PD25U/P
SS, S, SS2, SS3, SS4 and SS5-Board Block Diagram

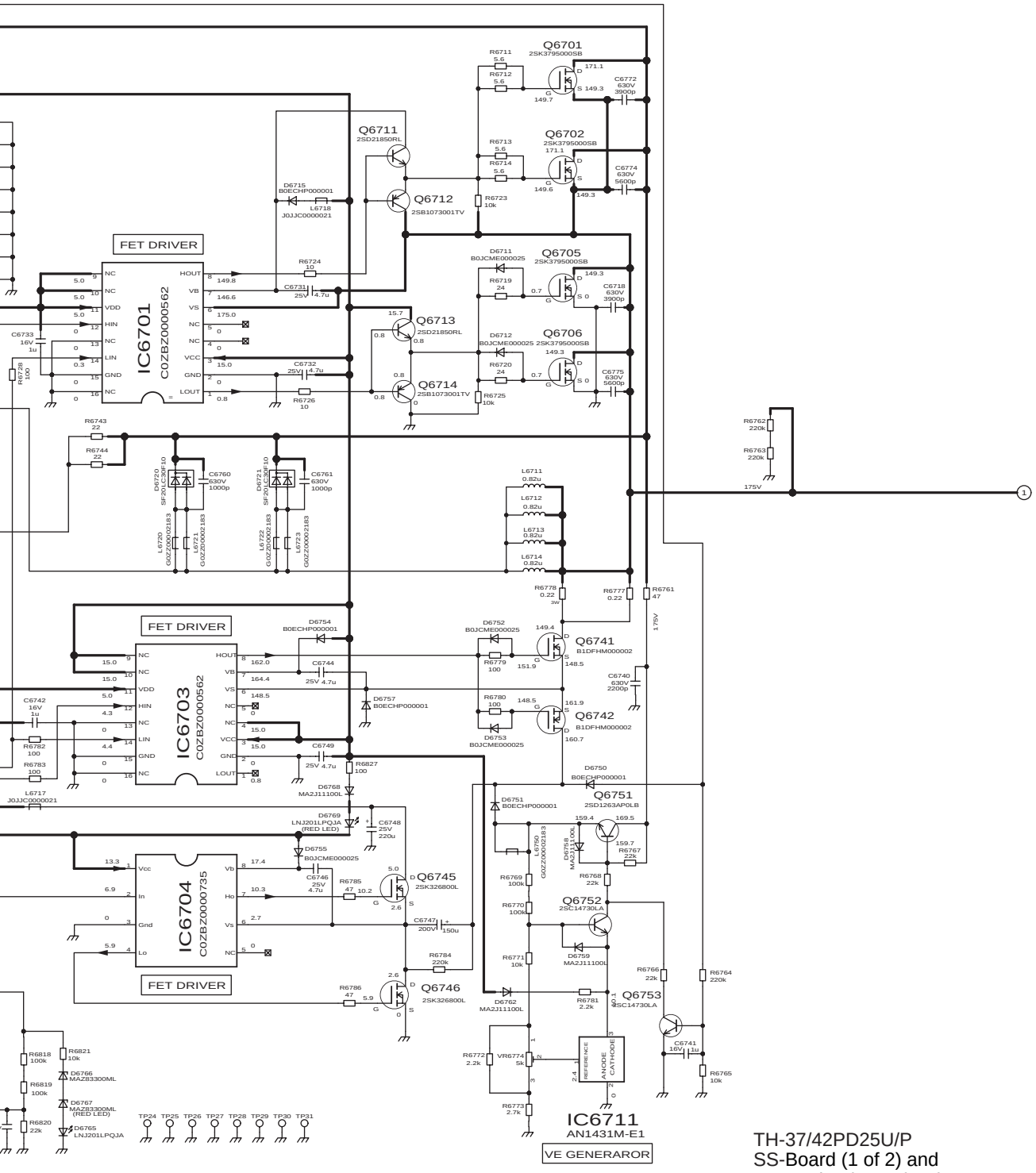


TH-37/42PD25U/P
SS, S, SS2, SS3, SS4 and SS5-Board
Block Diagram

15.68. SS-Board (1 of 2) and S-Board Schematic Diagram

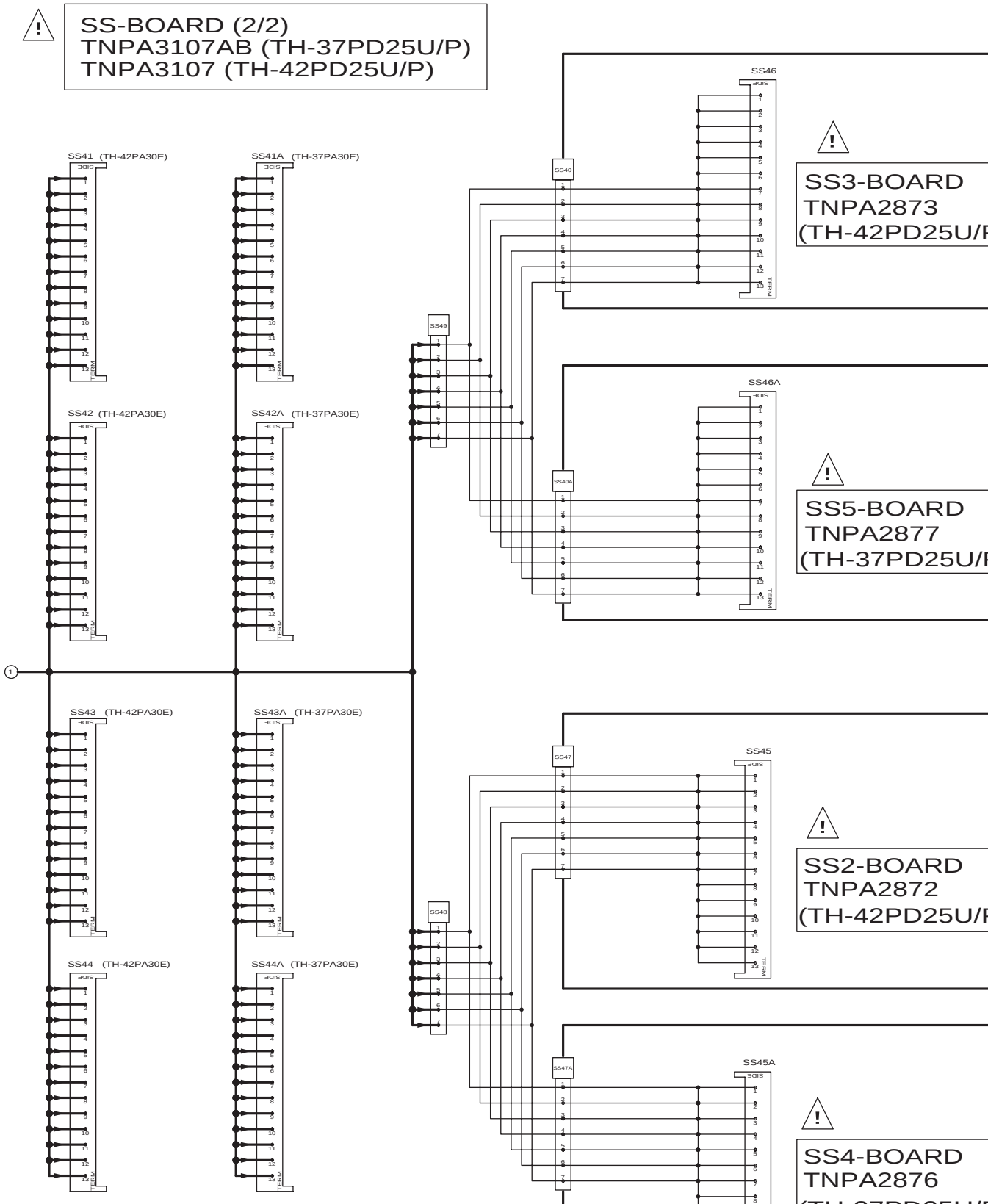


TH-37/42PD25U/P
SS-Board (1 of 2) and S-Board Schematic Diagram



TH-37/42PD25U/P
SS-Board (1 of 2) and
S-Board Schematic Diagram

15.69. SS-Board (2 of 2) SS2, SS3, SS4 and SS5-Board Schematic Diagram



SS-Board (1 of 2) Schematic Diagram
TH-37PD25U/P
SS4 and SS5-Board Schematic Diagram
TH-42PD25U/P
SS2 and SS3-Board Schematic Diagram

8 9 10 11

m

BOARD
2873
2PD25U/P)

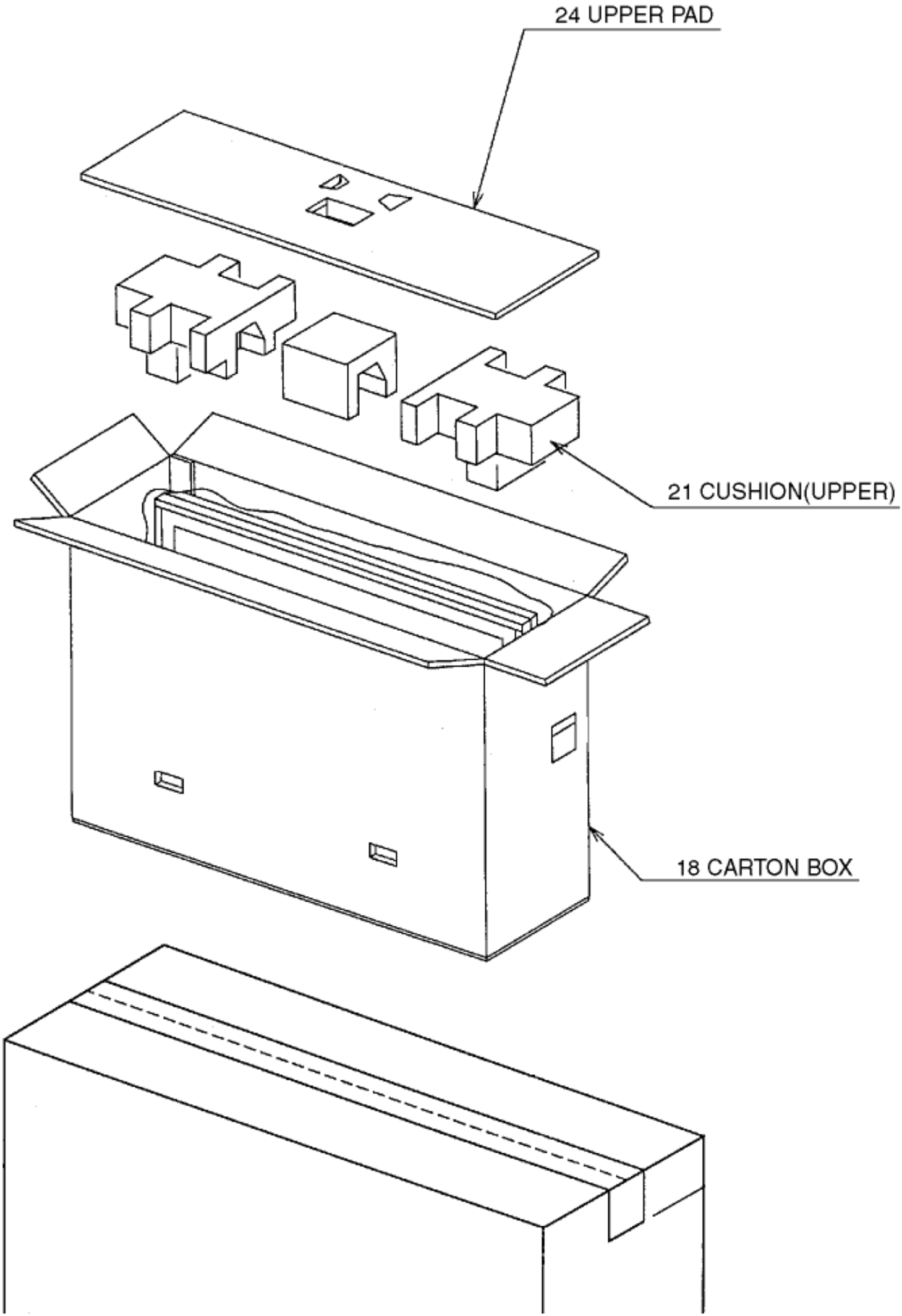
BOARD
A2877
7PD25U/P)

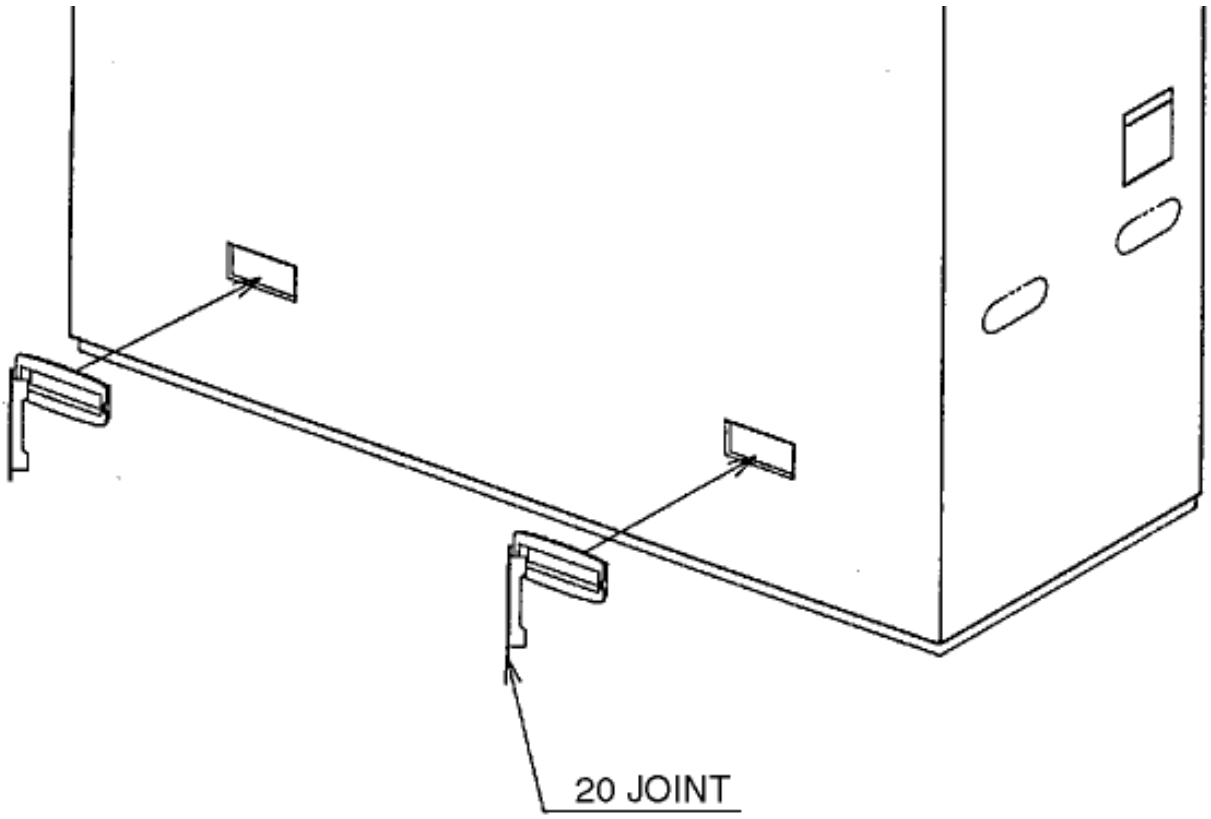
BOARD
A2872
2PD25U/P)

BOARD
A2876
7PD25U/P)

SS-Board (1 of 2) Schematic Diagram
TH-37PD25U/P
SS4 and SS5-Board Schematic Diagram
TH-42PD25U/P
SS2 and SS3-Board Schematic Diagram

12 13 14 15


24 UPPER PAD
21 CUSHION(UPPER)
18 CARTON BOX


20 JOINT